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Часть 1

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The Eleventh Annual conference Plasma physics in Solar system. Book of abstracts S79;S58

Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU);
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The Eleventh Annual conference Plasma physics in Solar system

Moscow (RU)

15-19 Feb 2016

Odinnadtsataya ezhegodnaya konferentsiya Fizika plazmy v Solnechnoj sisteme
 Odinnadtsataya ezhegodnaya konferentsiya Fizika plazmy v Solnechnoj sisteme. Sbornik tezisov
 INIS-RU--602
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 IKI RAN
 2016
 225 p.
 (RU, EN)

LEADING ABSTRACT; MEETINGS; SOLAR CYCLE; SOLAR ACTIVITY; SOLAR FLARES;
 MAGNETIC FIELDS; MAGNETIC FIELD CONFIGURATIONS; IONOSPHERE; AURORAL ZONES;
 PLASMA; PLASMAPAUSE; RADIOWAVE RADIATION; MATHEMATICAL MODELS;
 COMPUTERIZED SIMULATION; CORRELATIONS; ELECTRIC CURRENTS

The Eleventh annual conference #Left-Pointing Double Angle Quotation Mark#Plasma physics in the Solar system#Right-Pointing Double Angle Quotation Mark# was held on February 15-19, 2016, in the Space Research Institute of Russian Academy of Sciences in Moscow. In the book of abstracts there are the reports on theoretical and experimental investigations of plasma processes in heliosphere, in particular, processes on the Sun, in solar wind, in ionosphere and magnetosphere of Earth and other planets of solar system. The subjects of the conference also were investigation of wave processes in cosmic plasma, works on the physics of thin current layers, numerical and laboratory simulation of various plasma processes

Одиннадцатая ежегодная конференция #Left-Pointing Double Angle Quotation Mark#Физика плазмы в Солнечной системе#Right-Pointing Double Angle Quotation Mark# проходила 15-19 февраля 2016 г. в Институте космических исследований РАН в Москве. Представлены работы, связанные с теоретическими и экспериментальными исследованиями плазменных процессов в гелиосфере, в частности, процессов на Солнце, в солнечном ветре, в ионосфере и магнитосфере Земли и других планет солнечной системы. Тематика конференции также включала исследования волновых процессов в космической плазме, работы по физике тонких токовых слоев, численному и лабораторному моделированию различных плазменных процессов

Evolution of microwave radiation and magnetic fields of solar-active regions before great flares according to observations on RATAN-600 and SDO

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Abramov-Maksimov, V.E.; Borovik, V.N.; Opejkina, L.V.; Tlatov, A.G. (GAO RAN, Sankt-Peterburg (RU)), e-mail: beam@gao.spb.ru

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Ehvoljutsiya mikrovolnovogo izlucheniya i magnitnogo polya aktivnykh oblastej Solntsa pered bol'shimi vspyshkami po nablyudeniyam na RATAN-600 i SDO

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225 p.

MICROWAVE RADIATION; MAGNETIC FIELDS; FORECASTING; SOLAR FLARES; SUN; RADIO TELESCOPES

Sources of the II type radio-bursts generation

S79

Bilenko, I.A. (GAISH MGU, Moscow (RU)), e-mail: bilenko@sai.msu.ru

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Istochniki generatsii radiovspleskov II tipa

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SOLAR RADIO BURSTS; SOLAR FLARES; SUNSPOTS; CORRELATIONS; PLASMA; MAGNETIC FIELDS; COMPARATIVE EVALUATIONS

Dynamics of global solar magnetic field and coronal holes in the 21th-24th cycles of solar activity

S79

Bilenko, I.A. (GAISH MGU, Moscow (RU)), e-mail: bilenko@sai.msu.ru; Tavastsherna, K.S. (GAO RAN (Pulkovskaya), Sankt-Peterburg (RU))

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Dinamika global'nogo magnitnogo polya Solntsa i koronal'nykh dyr v 21-24 tsiklakh solnechnoj aktivnosti

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Investigation of magnetospheres of solar-active regions by radioastronomy methods

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Bogod, V.M.; Kal'tman, T.I.; Peterova, N.G.; Yasnov, L.V. (SPbF SAO, Sankt-Peterburg (RU))

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SUN; SOLAR GRANULATION; SOLAR RADIO BURSTS; SUNSPOTS; MAGNETIC FIELDS; RADIOASTRONOMY

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Bogomolov, A.V.; Myagkova, I.N. (MGU im. M.V. Lomonosova, NIIYaF im. D.V. Skobel'tsyna, Moscow (RU)), e-mail: aabboogg@rambler.ru; Panasyuk, M.I.; Svertilov, S.I.; Bogomolov, V.V. (MGU im. M.V. Lomonosova, NIIYaF im. D.V. Skobel'tsyna, Moscow (RU); MGU im. M.V. Lomonosova, FF, Moscow (RU)); Kuznetsova, E.A. (MGU im. M.V. Lomonosova, FF, Moscow (RU))

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Issledovanie solnechnykh vspyshek vtoroj poloviny 2014 goda na sputnike #Left-Pointing Double Angle Quotation Mark#Vernov#Right-Pointing Double Angle Quotation Mark#

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Currents and magnetic fields in rising active region. Bordering effect**S79***Getling, A.V.; Isikava, R.; Buchnev, A.A. (NIIYaF MGU, Moscow (RU)), e-mail: A.Getling@mail.ru***The Eleventh Annual conference Plasma physics in Solar system**

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Teheniya i magnitnye polya v rastushchej aktivnoj oblasti. Ehffekt okazheniya

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MAGNETIC FIELDS; SOLAR ACTIVITY; SUNSPOTS; SPATIAL DISTRIBUTION; COMPARATIVE EVALUATIONS

Initial stage of sigmoid formation**S79***Grigor'eva, I.Yu.; Livshits, M.A.; Mysh'yakov, I.I.; Rudenko, G.V. (GAO RAN, Sankt-Peterburg (RU); IZMIRAN, Troitsk (RU); ISZF SO RAN, Irkutsk (RU))***The Eleventh Annual conference Plasma physics in Solar system**

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Nachal'naya stadiya formirovaniya sigmoida

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SOLAR FLARES; SOLAR ACTIVITY; MAGNETIC FIELDS; HARD X RADIATION; SUNSPOTS

On X- and microwave radiation of solar flare: high-precision observations and modern models**S79***Gritsyk, P.A.; Somov, B.V. (GAISh MGU, Moscow (RU)), e-mail: pgritsyk@gmail.com*

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O rentgenovskom i mikrovolnovom izluchenii solnechnoj vspyshki: vysokotochnye nablyudeniya i sovremennye modeli

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Topological initiation of fast extended micro flare in solar chromosphere

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*Dumin, Yu.V. (GAISh MGU, Moscow (RU); IKI RAN, Moscow (RU)), e-mail: dumin@yahoo.com; Somov, B.V. (GAISh MGU, Moscow (RU))***The Eleventh Annual conference Plasma physics in Solar system**

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Physical properties of steady transition layer between Solar corona and chromosphere

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*Dunin-Barkovskaya, O.V.; Somov, B.V. (GAISh MGU, Moscow (RU)), e-mail: olga.ptitsyna@gmail.com***The Eleventh Annual conference Plasma physics in Solar system**

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SOLAR CORONA; CHROMOSPHERE; SUN; TEMPERATURE GRADIENTS; MAGNETIC FIELDS;
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S79
Egorov, Ya.I.; Fajnshtejn, V.G.; Rudenko, G.V.; Anfinogentov, S.A. (ISZF SO RAN, Irkutsk (RU)), e-mail: egorov@iszf.irk.ru

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O variatsiyakh fotosfernogo magnitnogo polya v oblasti solnechnoy vspyshki po dannym vektornykh izmerenij polya instrumentom SDO/HMI
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Rossiyskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovaniy RAN, Moscow (RU); Rossiyskij Fond Fundamental'nykh Issledovaniy, Moscow (RU)
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Comparative analysis of magnetic properties and shadow area of leader and trailer spots with different asymmetry of magnetic field connecting them

S79
Zagajnova, Yu.S.; Obridko, V.N. (IZMIRAN, Troitsk (RU)), e-mail: yuliazag@izmiran.ru; Fajnshtejn, V.G.; Rudenko, V.G.; Anfinogentov, S.A. (ISZF SO RAN, Irkutsk (RU))

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Sravnitel'nyj analiz magnitnykh svojstv i ploshadi teni vedushchikh i zamykayushchikh pyaten s razlichnoj asimmetriey svyazyvayushchego ikh magnitnogo polya

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Relationship of flare sources of hard X radiation and vertical electric currents on photosphere

S79

Zimovets, I.V. (IKI RAN, Moscow (RU); National Key Lab. of Space Weather, NSSC, Chinese Academy of Sciences, Beijing (CN); International Space Science Inst., Beijing (CN)), e-mail: ivanzim@iki.rssi.ru; Sharykin, I.N. (IKI RAN, Moscow (RU))

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Surprises continue: 7 years of developing the current 24th solar cycle and its further evolution forecast

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Ishkov, V.N. (IZMIRAN, Moscow (RU)), e-mail: ishkov@izmiran.ru

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Microwave observations of plages and coronal arcades

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Kal'tman, T.I.; Bogod, V.M.; Korzhavin, A.N.; Tokhchukova, S.Kh. (SPb F Spetsial'noj AO, Sankt-Peterburg (RU)), e-mail: arles@mail.ru

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Solar filaments as characteristics of large-scale magnetic fields helicity

S79

Kuzanyan, K.M. (IZMIRAN, Troitsk (RU)); Tlatov, A.G.; Vasil'eva, V.V. (Kislovodskaya GAO RAN, Kislovodsk (RU)), e-mail: kuzanyan@izmiran.ru, tlatov@mail.ru

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Nonsteady dynamics of sources of solar flares hard X radiation quasi-periodic pulsations **S79**

Kuznetsov, S.A.; Morgachev, A.S. (FGBNU NIRFI, Nizhnij Novgorod (RU)), e-mail: kuznetsov.sergey.a@yandex.ru; Zimovets, I.V.; Struminskij, A.B. (IKI RAN, Moscow (RU))

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Sil'vestr, B.; Sil'vester, Ya. (TsKI PAN, Varshava (PL)); Kuznetsov, V.D. (IZMIRAN im. N.V. Pushkova, Troitsk (RU)), e-mail: kvd@izmiran.ru

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SOLAR CORONA; SOLAR FLARES; PLASMA; X-RAY SPECTRA; QUALITATIVE CHEMICAL ANALYSIS; KEV RANGE 01-10; X-RAY SPECTROMETERS; SUN

TDA-diagnostics of magnetic fields dynamic modes in Solar-active regions

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Makarenko, N.G.; Knyazeva, I.S.; Urt'ev, F.A.; Volobuev, D.M. (GAO RAN, Sankt-Peterburg (RU)), e-mail: ng-makar@mail.ru

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Yukhina, N.A. (MGU im. M.V. Lomonosova, FF, Moscow (RU)), e-mail: nayukhina@gmail.com; Popova, E.P. (MGU im. M.V. Lomonosova, NIIYaF, Moscow (RU))

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Bakunina, I.A. (NIU BShEh, Nizhnij Novgorod (RU)), e-mail: rinbak@mail.ru; Abramov-Maksimov, V.E.;

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Minasyants, G.S.; Minasyants, T.M. (AO NTsKIT im. V.G. Fesenkova, Almaty (KZ)); Tomozov, V.M. (ISZF SO RAN, Irkutsk (RU)), e-mail: gennadiiminasya@mail.ru, tom@iszf.irk.ru

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Large-scale disturbances in solar wind according to the monitoring data of interplanetary scintillations**S79**

Chashej, I.V.; Shishov, V.I.; Tyul'bashev, S.A.; Subaev, I.A. (FI im. P.N. Lebedeva, Pushchinskaya RO, Pushchino (RU))

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Shugaj, Yu.S. (NIIYaF MGU, Moscow (RU)), e-mail: jshugai@srd.sinp.msu.ru; Veselovskij, I.S. (NIIYaF MGU, Moscow (RU); IKI RAN, Moscow (RU)); Slemzin, V.A.; Rod'kin, D.G. (FIAN RAN, Moscow (RU))

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Solar wind turbulence from fast BMSW measurements**S79**

Nemecek, Z.; Safrankova, J.; Prech, L.; Nemecek, F.; Pitna, A. (Charles Univ., Faculty of Mathematics and

Physics, Prague (CZ)), e-mail: zdenek.nemecek@mff.cuni.cz; Zastenker, G.; Riazantseva, M. (IKI RAN, Moscow (RU)); Chen, C.H.K. (Univ. of London, Imperial College, London (GB))

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The 24th solar cycle in manifestations of magnetic storms according to the data of the #Left-Pointing Double Angle Quotation Mark#Moscow#Right-Pointing Double Angle Quotation Mark# observatory and peculiarities of initial decline phase of solar cycle S79

Val'chuk, T.E. (IZMIRAN im. N.V. Pushkova RAN, Troitsk (RU)), e-mail: tatiana_valchuk_1948@mail.ru

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24 tsikl solnechnoj aktivnosti v proyavleniyakh magnitnykh bur' po dannym observatorii #Left-Pointing Double Angle Quotation Mark#Moskva#Right-Pointing Double Angle Quotation Mark# i osobnosti nachal'noj fazy spada tsikla

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Dajbog, E.I.; Lazutin, L.L.; Logachev, Yu.I. (NIIYaF MGU, Moscow (RU)), e-mail: 123daibog@gmail.ru

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Energy spectra of epithermal ions in solar-wind fluxes from near-equatorial coronal holes for 1 A.U. in 2006-2012

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Zel'dovich, M.A.; Logachev, Yu.I. (NIIYaF MGU, Moscow (RU)), e-mail: mariya@srd.sinp.msu.ru

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Koloskova, I.V.; Zastenker, G.N.; Rakhmanova, L.S. (IKI RAN, Moscow (RU)), e-mail: irinakoloskova@mail.ru

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SOLAR WIND; ION DENSITY; MONITORS; COMPARATIVE EVALUATIONS

Comparison of long-term and quasi-biennial variations of large-scale magnetic fields on the Sun and in heliosphere

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Krajnev, M.B.; Bazilevskaya, G.A.; Kalinin, M.S.; Svirzhevskij, N.S.; Svirzhevskaya, A.K. (FIAN im. P.N. Lebedeva, Moscow (RU)), e-mail: mkrainev46@mail.ru

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Sravnienie dolgovremennykh i kvazidvukhletnykh variatsij krupnomasshtabnykh magnitnykh polej na Solntse i v geliosfere

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DIMENSIONS

High-speed streams and their contribution into geomagnetic activity on different phases of 22-year solar cycle

S79;S58

Kuznetsova, T.V. (IZMIRAN, Troitsk (RU)), e-mail: tvkuz2@yandex.ru

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Recurrence of geomagnetic activity in solar cycle

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Rakhmanova, L.S.; Zastenker, G.N. (IKI RAN, Moscow (RU)); Ryazantseva, M.O. (IKI RAN, Moscow (RU)); NIIYaF im. D.V. Skobel'tsyna MGU im. M.V. Lomonosova, Moscow (RU)), e-mail: rakhnud@gmail.com

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Coronal sources of geoeffective transient solar-wind fluxes

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Rod'kin, D.G.; Slemzin, V.A.; Goryaev, F.F. (FI im. P.N. Lebedeva RAN, Moscow (RU)), e-mail: rodkindg@gmail.com; Shugaj, Yu.S. (MGU im. M.V. Lomonosova, NIIYaF im. D.V. Skobel'tsyna, Moscow (RU))

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Investigation of interplanetary bow shocks recorded by BMSV device on SPEKTR-R satellite

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Sapunova, O.V.; Borodkova, N.L.; Zastenker, G.N. (IKI RAN, Moscow (RU)), e-mail: sapunova_olga@mail.ru

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Bakhmet'eva, N.V.; Vyakhirev, V.D.; Kalinina, E.E.; Komrakov, G.P. (FGBNU NIRFI, Nizhnij Novgorod (RU)), e-mail: nv_bakhm@nirfi.sci-nnov.ru

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Analysis of Venusian ionosphere disturbances on the base of radioeclipse data

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Gavrik, A.L.; Kopnina, T.F.; Smyslov, A.A.; Bondarenko, M.I. (FIREh im. V.A. Kotel'nikova RAN, Fryazino, (RU)), e-mail: alg248@hotmail.com

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NIGHT SKY; IONIZATION; RELIABILITY

Effects of nonlinear ponderomotive force on auroral magnetic field lines

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Golovchanskaya, I.V. (PGI, Apatity (RU)), e-mail: golovchanskaya@pgia.ru

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PONDEROMOTIVE FORCE; ALFVEN WAVES; PLASMA; IONOSPHERE; EARTH
MAGNETOSPHERE; MAGNETIC FIELDS

Ionosphere optical light at the action by intense short radio waves: spatial characteristics at two-position observations; peculiarities at exposure frequency near the 4th electronic gyroharmonic

S79;S58

Shindin, A.V.; Grach, S.M. (FGAOU NINGU im. N.I. Lobachevskogo, Nizhnij Novgorod (RU)); Kogogin, D.A.; Nasyrov, I.A. (FGAOU VPO KFU, Kazan' (RU)); Beletskij, A.B. (ISZF SO RAN, Irkutsk (RU)); Klimenko, V.V. (IPF SO RAN, Nizhnij Novgorod (RU)); Sergeev, E.N. (NIRFI, Nizhnij Novgorod (RU)), e-mail: freaz@bk.ru

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Opticheskoe svechenie ionosfery pri vozdeystvii moshchnym KV radioizlucheniem: prostranstvennye kharakteristiki pri dvukhpozitsionnykh nablyudeniyakh; osobennosti pri chastote vozdeystviya vblizi 4-j ehlektronnoj girogarmoniki

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S79

Shindin, A.V.; Grach, S.M.; Kogogin, D.A.; Klimenko, V.V.; Nasyrov, I.A.; Sergeev, E.N. (FGAOU NINGU im. N.I. Lobachevskogo, Nizhnij Novgorod (RU)), e-mail: freaz@bk.ru

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Prostranstvennye kharakteristiki oblasti generatsii iskusstvennogo opticheskogo svecheniya ionosfery v linii 630 nm pri vozdeystvii na nee moshchnym KV radioizlucheniem

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**Spatial-temporal analysis of the instrument data of Langmuir probe of the International
 #Left-Pointing Double Angle Quotation Mark#Obstanovka (1 stage)#Right-Pointing
 Double Angle Quotation Mark# experiment on board of the ISS Russian segment
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*Grushin, V.A.; Klimov, S.I.; Belova, I.Eh.; Novikov, D.I.; Belyakova, L.D. (IKI RAN, Moscow (RU)), e-mail:
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Prostranstvenno-vremennoj analiz dannykh pribora zond Lengmyura mezhdunarodnogo ehksperimenta

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INTERNATIONAL SPACE STATION; LANGMUIR PROBE; PLASMA WAVES; COMPARATIVE
 EVALUATIONS; ELECTRIC CONDUCTIVITY; GEOMAGNETIC COORDINATES

**Properties of F2-layer critical frequency median in night subauroral ionosphere
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Deminov, M.G. (IZMIRAN, Troitsk (RU)), e-mail: deminov@izmiran.ru

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Svoystva mediany kriticheskoj chastoty F2-sloya v nochnoj subavroral'noj ionosfere

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Investigation of short waves nonuniform structure forming at ionospheric propagation S79

Zakharov, V.E. (BFU im. I. Kanta, Kaliningrad (RU)); Klimenko, M.V.; Kotova, D.S. (BFU im. I. Kanta, Kaliningrad (RU)); KF IZMIRAN im. N.V. Pushkova, Kaliningrad (RU)); Klimenko, V.V. (KF IZMIRAN im. N.V. Pushkova, Kaliningrad (RU)), e-mail: VEZakharov@kantiana.ru, maksim.klimenko@mail.ru, vvk_48@mail.ru, darshu@ya.ru

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Issledovanie formirovaniya neodnorodnoj struktury korotkikh voln pri ionosfernom rasprostraneni

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The role of ion drift velocity shift on excitation of ion-acoustic type waves in high-latitude ionosphere

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Il'yasov, A.A.; Chernyshov, A.A.; Mogilevskij, M.M. (IKI RAN, Moscow (RU)); Golovchanskaya, I.V.; Kozelov, B.V. (PGI KNTs RAN, Apatity (RU)), e-mail: asjosik@mail.ru

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Rol' sdviga drejfovoj skorosti ionov na vozbuzhdenie voln ionno-akusticheskogo tipa v vysokoshirotnoj ionosfere

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ION ACOUSTIC WAVES; IONOSPHERE; MAGNETIC FIELDS; ENERGY DENSITY; DRIFT INSTABILITY; ELECTRIC FIELDS; ION WAVE INSTABILITY; COMPARATIVE EVALUATIONS

Model of main ionospheric trough for winter night conditions according the Intercosmos-19 and CHAMP data

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Karpachev, A.T.; Klimenko, M.V.; Klimenko, V.V.; Pustovalova, L.V. (IZMIRAN, Troitsk (RU)), e-mail: karp@izmiran.ru

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MATHEMATICAL MODELS; AURORAL ZONES; NIGHT SKY; SATELLITES; SOLAR ACTIVITY; LATITUDE EFFECT; SIMULATION; SUN; F2 LAYER; CRITICAL FREQUENCY

Kinetics of metastable molecular nitrogen in atmospheres of Solar System planets

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Kirillov, A.S. (PGI, Apatity (RU)), e-mail: kirillov@pgia.ru

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Kinetika metastabil'nogo molekulyarnogo azota v atmosferakh planet Solnechnoj sistemy

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 SIMULATION

Longitudinal dependence of foF2 and TEC disturbances during geomagnetic storms

S79

*Klimenko, M.V. (ZO IZMIRAN im. N.V. Pushkova, Kaliningrad (RU); BFU im. I. Kanta, Kaliningrad (RU));
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Dolgotnaya zavisimost' vozmushchenij foF2 i TEC vo vremya geomagnitnykh bur'

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Investigation of dynamics of ionospheric plasma large-scale disturbances recorded along geomagnetic latitude of #Left-Pointing Double Angle Quotation Mark#Sura#Right-Pointing Double Angle Quotation Mark# facility by satellite system continuous electromagnetic transmission probing

S79

Kogogin, D.A.; Nasyrov, I.A.; Grach, S.M.; Shindin, A.V.; Zagretdinov, R.V. (FGAOU VPO K(P)FU, Kazan' (RU)), e-mail: dkogogin@kpfu.ru

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Issledovanie dinamiki krupnomasshtabnykh vozmushchenij ionosfernoj plazmy, zaregistrirrovannykh vdol' geomagnitnoj shirotly stenda #Left-Pointing Double Angle Quotation Mark#Sura#Right-Pointing Double

Angle Quotation Mark# metodom radioprosvechivaniya signalami sputnikovyykh sistem

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Response of ionosphere total electron content on substorm beginning

S79;S58

Kozyreva, O.V.; Pilipenko, V.A. (IFZ RAN, Moscow (RU); IKI RAN, Moscow (RU)); Zakharov, V.I. (MGU, Moscow (RU)), e-mail: kozyreva@ifz.ru, pilipenko_va@mail.ru, zvi_555@list.ru

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Cosmic experiment RWIS (Radio Waves Ionospheric Sensing) for measuring spacecraft #Left-Pointing Double Angle Quotation Mark#Chibis-AI#Right-Pointing Double Angle Quotation Mark# signal ionospheric delays with the aim of ionospheric plasma diagnostics and navigation satellite system data refinement

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Kosov, A.S.; Aniskovich, V.M.; Korogod, V.V.; Mogilevskij, M.M.; Nemlikher, Yu.A.; Skulachev, D.P. (IKI RAN, Moscow (RU))

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Kosmicheskij ehksperiment RWIS (Radio Waves Ionosphere Sensing) po izmereniyu ionosfernykh

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Angle Quotation Mark# s tsel'yu diagnostiki ionosfernoj plazmy i utochneniya dannykh sputnikovykh

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Three-dimensional global photochemical numerical model including D region of ionosphere: effects of solar cycle

S79

Krivolutskij, A.A.; Cherepanova, L.A.; V'yushkova, T.Yu. (TsAO ROSGIDROMETA, Dolgoprudnyj (RU)), e-mail: krivolutsky@mail.ru

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Trekhmernaya global'naya fotokhimicheskaya chislennaya model', vklyuchayushchaya oblast' D ionosfery: ehffekty solnechnogo tsikla

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Investigation of auroral lower ionosphere using meteor radar and ionosonde

S79;S58

Luk'yanova, R.Yu. (GTs RAN, Moscow (RU); IKI RAN, Moscow (RU)); Kozlovskij, A.E. (Geofizicheskaya Observatoriya Sodankyulya, Sodankyulya (FI)); Shalimov, S.L. (IFZ RAN, Moscow (RU); IKI RAN, Moscow (RU)), e-mail: r.lukianova@gcras.ru

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**Effect of tropospheric tidal waves on equatorial plasma irregularities (#Left-Pointing
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 the ways of transmission**

S79;S58

Sidorova, L.N.; Filippov, S.V. (IZMIRAN, Troitsk (RU)), e-mail: lsid@izmiran.ru

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**Large-scale convection of ionospheric plasma in high latitudes according to ground-base
 measurements**

S79;S58

*Stepanov, A.E.; Khalipov, V.L.; Kotova, G.A.; Zabolotskij, M.S.; Golikov, I.A.; Kobyakova, S.E. (IKFIA SO
 RAN im. Yu.G. Shafera, Yakutsk (RU)), e-mail: a_e_stepanov@ikfia.sbras.ru*

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Simulation of ionosphere conditions according to real time data over RF territory

S79;S58

Titov, A.A.; Solomentsev, D.V.; Khattatov, V.U. (FGBU #Left-Pointing Double Angle Quotation Mark#IPG#Right-Pointing Double Angle Quotation Mark#Rosgidrometa, Moscow (RU))

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Characteristics of electromagnetic and plasma disturbances induced on the outermost ionosphere altitudes at modification of F2-region by intensive short waves of SURA facility

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Frolov, V.L.; Rapoport, V.O.; Shorokhova, E.A.; Belov, A.S.; Parro, M. (FGBNU NIRFI, Nizhnij Novgorod (RU)), e-mail: frolov.418@nirfi.sci-nnov.ru

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Kharakteristiki ehlektromagnitnykh i plazmennyykh vozmushchenij, indutsiruemykh na vysotakh vneshnej

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Yasyukevich, Yu.V.; Vasil'ev, R.V.; Ratovskij, K.G.; Vesnin, A.M.; Globa, M.V.; Fedotova, A.Yu. (ISZF SO RAN, Irkutsk (RU)), e-mail: yasyukevich@iszf.irk.ru

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Antonenko, O.V.; Kirillov, A.S.; Kulikov, Yu.N. (PGI, Apatity (RU)), e-mail: antonenko@pgia.ru

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Resonance ULF absorption under conditions of magnetic storm

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Badin, V.I. (IZMIRAN, Troitsk (RU)), e-mail: badin@izmiran.ru

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Modulation of ionosphere parameters by global Pc5 pulsations observed simultaneously by GPS-receivers and EISCAT radar

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Pilipenko, V.A.; Fedorov, E.N. (IFZ RAN, Moscow (RU)); Belakhovskij, V.B. (PGI, Apatity (RU)); Murr, D.; Ehngbretson, M. (Kolledzh Augsburg, Minneapolis (US)), e-mail: belakhov@mail.ru

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Modulyatsiya parametrov ionosfery global'nymi Ps5 pul'satsiyami, nablyudaemymi odnovremenno s pomoshch'yu GPS-priemnikov i radara EISCAT

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COMPARATIVE EVALUATIONS

Response of low-latitude ionosphere total electron content on global Pc5 pulsations **S79;S58**

Vorontsova, E.V. (Nauchnaya Stantsiya RAN, Bishkek (KG)); Pilipenko, V.A. (IKI RAN, Moscow (RU)), e-mail: voroncova_e@mail.ru, pilipenko_va@mail.ru

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Zakharov, V.I. (FF GU MGU im. M.V. Lomonosova, Moscow (RU)); Gorchakov, G.I. (IFA RAN im. A.M. Obukhova, Moscow (RU)), e-mail: zvi_555@list.ru

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Kol'tso peremeshchayushchikhsya ot moskovskogo megalopolisa ionosfernykh vozmushchenij po GPS-dannym

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Structure of radiowave field in ionospheric layers as a result of numerical solution of parabolic equation of diffraction

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Ilyushin, Ya.A. (MGU im. M.V. Lomonosova, Moscow (RU)); Gavrik, A.L.; Kopnina, T.F. (FIREh im. V.A. Kotel'nikova RAN, Fryazino (RU)), e-mail: alg248@hotmail.com

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Adaptive correction of ionospheric phase distortions of MARSIS depth probe radar signals reflected from Mars relief surface

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Ilyushin, Ya.A. (MGU im. M.V. Lomonosova, Moscow (RU)); IREh im. V.A. Kotel'nikova RAN, Moscow (RU); VNIIOFI, Moscow (RU)); Orosey, R. (IRA, NIA, Bolon'ya (IT)); Vitasse, O. (EKA, Noordwijk (NL)); Sanches-Kano, B. (Univ. Lejchetera, Lejchester (GB)), e-mail: ilyushin@phys.msu.ru

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Kogogin, D.A.; Shindin, A.V.; Nasyrov, I.A.; Grach, S.M. (FGAOU VPO K(P)FU, Kazan' (RU)), e-mail: dkogogin@kpfu.ru

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Koltovskoj, I.I.; Ammosov, P.P.; Gavril'eva, G.A.; Ammosova, A.M.; Stepanov, A.E. (IKFIA SO RAN, Yakutsk (RU)), e-mail: koltigor@mail.ru

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On possibility of remote diagnostics of atmosphere radioactive contamination**S54***Kudryavtsev, V.P.; Kovaleva, I.Kh. (IDG RAN, Moscow (RU)), e-mail: ikhkov@idg.chph.ras.ru***The Eleventh Annual conference Plasma physics in Solar system**

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Disturbance of lower ionosphere by the Chelyabinsk bolide radiation**S79;S58***Loseva, T.V.; Lyakhov, A.N.; Kosarev, I.B.; Kuz'micheva, M.Yu. (IDG RAN, Moscow (RU)); Golub', A.P. (IKI RAN, Moscow (RU)), e-mail: losseva@idg.chph.ras.ru***The Eleventh Annual conference Plasma physics in Solar system**

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Luk'yanova, R.Yu. (GTs RAN, Moscow (RU); IKI RAN, Moscow (RU)); Uvarov, V.M. (GUPS, Sankt-Peterburg (RU)), e-mail: r.lukianova@gcras.ru

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Lundin, B.V. (IZMIRAN, Troitsk (RU)); Krafft, K. (LPP ECOLE POLYTECHNIQUE, Palaiseau (FR)), e-mail: lundin.bv@gmail.com

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Nosikov, I.A.; Bessarab, P.F.; Klimenko, M.V.; Rubtsov, O.S.; Zhbankov, G.A. (BFU im. I. Kanta, Kalinigrad (RU)), e-mail: igor.nosikov@gmail.com

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Timofeev, E.E.; Shalimov, S.L.; Vallinkoski, M.K.; Kangas, J. (GUMRF im. S.O. Makarova, Sankt-Peterburg (RU)), e-mail: evgeny.timofeev47@gmail.com

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Fadeeva, L. Yu. (KNITU im. A.N. Tupoleva, Kazan' (RU)), e-mail: milafadeeva@yandex.ru

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Chirik, N.V. (BFU im. I. Kanta, Kaliningrad (RU)); Klimenko, V.V.; Zakharenkova, I.E.; Koren'kova, N.A.

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Khalipov, V.L.; Kotova, G.A. (IKI RAN, Moscow (RU)); Stepanov, A.E. (IKFIA SO RAN, Yakutsk (RU)); TISV FU, Yakutsk (RU)); Kobyakova, S.E. (IKFIA SO RAN, Yakutsk (RU)); Bogdanov, V.V.; Kajsin, A.V. (IKIR DVO RAN, Paratunka (RU)), e-mail: khalipov@iki.rssi.ru

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Maltseva, O.A.; Nikitenko, T.V. (Inst. for Physics SFU, Rostov-on-Don (RU)); Sergeeva, M.A. (SciESMEX, Geophysics Inst. campus Michoacan of the NAU of Mexico, Mexico (MX)), e-mail: mal@ip.rsu.ru, tes19@mail.ru

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Andreeva, V.A.; Tsyganenko, N.A. (SPbGU, Sankt-Peterburg (RU)), e-mail: varandreeva@gmail.com

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Antonova, E.E. (NIIYaF MGU, Moscow (RU)); IKI RAN, Moscow (RU)); Stepanova, M.V. (Univ. Sant'yago de Chili, Sant'yago (CL)); Ovchinnikov, I.L. (NIIYaF MGU, Moscow (RU)); Kirpichev, I.P. (IKI RAN, Moscow (RU)); NIIYaF MGU, Moscow (RU)), e-mail: elizaveta.antonova@gmail.com

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Bazilevskaya, G.A.; Kalinin, M.S.; Krajnev, M.B.; Makhmutov, V.S.; Svirzhevskij, N.S.; Svirzhevskaya, A.K.; Stozhkov, Yu.I. (FIAN im. P.N. Lebedeva, Moscow (RU)), e-mail: bazilevs@sci.lebedev.ru

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Bespalov, P.A. (IPF RAN, Nizhnij Novgorod (RU)); Mizonova, V.G. (NGTU im. R.E. Alekseeva, Nizhnij Novgorod (RU)), e-mail: peter@appl.sci-nnov.ru

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Bogomolov, A.V.; Myagkova, I.N.; Petrov, V.L. (MGU im. M.V. Lomonosova, NIYaF im. D.V. Skobel'tsyna, Moscow (RU)); Panasyuk, M.I.; Svertilov, S.I.; Bogomolov, V.V.; Prokhorov, A.V. (MGU im. M.V. Lomonosova, NIYaF im. D.V. Skobel'tsyna, Moscow (RU)); MGU im. M.V. Lomonosova, FF, Moscow (RU)), e-mail: aabboogg@rambler.ru

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Vysypaniya relyativistskikh magnitosfernykh ehlektronov v nizkoshirotnykh oblastiakh v ehksperimente #Left-Pointing Double Angle Quotation Mark#REhLEK#Right-Pointing Double Angle Quotation Mark# na sputnike #Left-Pointing Double Angle Quotation Mark#Vernov#Right-Pointing Double Angle Quotation Mark#

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Verigin, M.I.; Kotova, G.A.; Bezrukikh, V.V. (IKI RAN, Moscow (RU)), e-mail: verigin@iki.rssi.ru

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Viktorov, M.E.; Vodop'yanov, A.V.; Golubev, S.V.; Mansfel'd, D.A. (IPF RAN, Nizhnij Novgorod (RU)), e-mail: mikhail.viktorov@appl.sci-nnov.ru

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*Vovchenko, V.V. (IKI RAN, Moscow (RU)); Antonova, E.E. (IKI RAN, Moscow (RU)); NIIYaF MGU, Moscow
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Gordeev, E.I.; Sergeev, V.A. (SPbGU, Sankt-Peterburg (RU)), e-mail: evgeny.i.gordeev@spbu.ru

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Grigorenko, E.E.; Kronberg, E.A.; Dali, P. (IKI RAN, Moscow (RU)), e-mail:

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Kalegaev, V.V.; Vlasova, N.A. (NIIYaF MGU, Moscow (RU)), e-mail: klg@deci.sinp.msu.ru

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Kirpichev, I.P. (IKI RAN, Moscow (RU)); Antonova, E.E. (IKI RAN, Moscow (RU)); NIIYaF im. D.V. Skobel'tsyna, MGU, Moscow (RU)); Znatkova, S.S. (NIIYaF im. D.V. Skobel'tsyna, MGU, Moscow (RU)), e-mail: ikir@iki.rssu.ru, elizaveta.antonova@gmail.com

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Influence of solar wind direction jumps on probability of substorms breakdown

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Kubyshkina, D.I.; Semenov, V.S.; Kubyshkina, M.V. (SPbGU, Sankt-Peterburg (RU)), e-mail: kubyshkina.darya@gmail.com

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Myagkova, I.N.; Kovtyukh, A.S.; Bogomolov, A.V.; Balan, E.S. (MGU im. M.V. Lomonosova, NIIYaF im. D.V. Skobel'tsyna, Moscow (RU)); Panasyuk, M.I.; Svertilov, S.I.; Bogomolov, V.V. (MGU im. M.V. Lomonosova, NIIYaF im. D.V. Skobel'tsyna, Moscow (RU)); MGU im. M.V. Lomonosova, FF, Moscow (RU)); Sibiryakova, D.V. (MGU im. M.V. Lomonosova, FF, Moscow (RU)), e-mail: irina@srd.sinp.msu.ru

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Dinamika potokov ehlektronov na srednikh shirotakh v noyabre-dekabre 2014 goda po dannym ehksperimentov na KA #Left-Pointing Double Angle Quotation Mark#Vernov#Right-Pointing Double Angle Quotation Mark# i #Left-Pointing Double Angle Quotation Mark#Meteor-M #Numero Sign#2#Right-Pointing Double Angle Quotation Mark#

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Development of magnetic storms main phase depending on the function of relation between solar wind and magnetosphere for different types of solar wind current

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Nikolaeva, N.S.; Ermolaev, Yu. I.; Lodkina, I.G. (IKI RAN, Moscow (RU)), e-mail: nnikolae@iki.rssi.ru

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Comparison of pressure balance conditions on magnetopause in quiet geomagnetic conditions and during magnetic storms

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Pulinets, M.S.; Znatkova, S.S. (NIIYaF im. D.V. Skobel'tsyna, MGU, Moscow (RU)); Antonova, E.E.; Ryazantseva, M.O. (NIIYaF im. D.V. Skobel'tsyna, MGU, Moscow (RU)); IKI RAN, Moscow (RU)); Kirpichev, I.P. (IKI RAN, Moscow (RU)); NIIYaF im. D.V. Skobel'tsyna, MGU, Moscow (RU)), e-mail: cotopaxy@gmail.com, oream@gmail.com

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Do we know exact position of magnetopause for typical conditions in solar wind?

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Samsonov, A.A.; Gordeev, E.; Tsyganenko, N.A.; Sergeev, V.A. (SPbGU, Sankt-Peterburg (RU)); Vang, I. (GSFTs, Grinbelt (US)); Nemechek, Z.; Shafrankova, Ya. (Karlovy Univ., Praga (CZ)), e-mail: andre.samsonov@gmail.com

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Znaem li my tochnoe polozhenie magnitopauzy dlya tipichnykh uslovij v solnechnom vetre?

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Interaction of flowing out HD209458B atmosphere with stellar wind

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Shajkhislamov, I.F.; Prokopov, P.A.; Khodachenko, M.L. (ILF SO RAN, Novosibirsk (RU)), e-mail: ildars@ngs.ru

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Influence of magnetic field azimuthal component on electron anisotropy in Earth's magnetic tail

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Yushkov, E.V.; Artem'ev, A.V.; Petrukovich, A.A. (IKI RAN, Moscow (RU)); Nakamura, R. (SRI, Austrian Academy of Sciences, Graz (AT)), e-mail: yushkov.msu@mail.ru

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Proton temperature and concentration dynamics in plasmasphere in quiet and disturbed geomagnetic conditions along magnetic force tubes according to INTERBOL-1 data S79;S58

Bezrukikh, V.V.; Kotova, G.A.; Verigin, M.I. (IKI RAN, Moscow (RU)), e-mail: vbez@iki.rssi.ru

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Auroras on Jupiter and Saturn

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Generation of electromagnetic radiation at injecting dense supersonic plasma flow in magnetic arch

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Viktorov, M.E.; Vodop'yanov, A.V.; Golubev, S.V.; Mansfel'd, D.A. (IPF RAN, Nizhnij Novgorod (RU)), e-mail: mikhail.viktorov@appl.sci-nnov.ru

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S79;S58

Tyasto, M.I.; Danilova, O.A.; Vernova, E.S. (Sankt-Peterburgskij Filial IZMIRAN, Sankt-Peterburg (RU)); Sdobnov, V.E. (ISZF SORAN, Moscow (RU)), e-mail: md1555@mail.ru

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S79;S58

Znatkova, S.S.; Pulinets, M.S. (NIIYaF MGU, Moscow (RU)); Antonova, E.E.; Ryazantseva, M.O. (NIIYaF MGU, Moscow (RU)); IKI RAN, Moscow (RU)); Kirpichev, I.P. (IKI RAN, Moscow (RU)); NIIYaF MGU, Moscow (RU)), e-mail: svetlana.znatkova@yandex.ru, elizaveta.antonova@gmail.com

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On the nature of ion structures TDIS (Temporary Dispersed Ion Structures) in plasma layer

S79;S58

Kovrazhkin, R.A.; Vladimirova, G.A.; Glazunov, A.L. (IKI RAN, Moscow (RU)); Sovo, Zh.-A. (IAFPI (IRAP), Tuluza (FR)), e-mail: rkovrazh@iki.rssi.ru

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Lukin, A.S.; Petrukovich, A.A. (IKI RAN, Moscow (RU)), e-mail: apetruko@iki.rssi.ru

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Energy spectra of electron flows of Earth's outer-radiation zone in the period of solar activity minimum in 2007

S79;S58

Morozova, E.I.; Bezrodnykh, I.P.; Petrukovich, A.A. (IKI RAN, Moscow (RU)); Budyak, M.N.; Semenov, V.T. (OAO #Left-Pointing Double Angle Quotation Mark#Korporatsiya #Left-Pointing Double Angle Quotation Mark#VNIIEhM#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)), e-mail:

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SOLAR WIND; ELECTRON SPECTRA

Formation of magnetic island in magnetotail of disturbed magnetosphere

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Nazarkov, I.S.; Kalegaev, V.V. (NIIYaF MGU, Moscow (RU)), e-mail: nazarkov@dec1.sinp.msu.ru

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Global impulsive burst of geomagnetic pulsations in 0.2-5 Hz frequency range as precursors of sudden commencement of St. Patrick geomagnetic storm on March, 17, 2015

S79;S58

Parkhomov, V.A.; Chilikin, V.Eh. (Bajkal'skij GUEhP, Irkutsk (RU)); Borodkova, N.L. (IKI RAN, Moscow (RU)); Dovbnaya, B.V. (GO Borok, IFZ RAN, Borok Yaroslavskoj Obl. (RU)); Yakhnin, A.G. (PGI KNTsRAN, Apatity (RU)); Suvorova, A.V. (ISS, NCU, Jhongli, Taiwan (CN)); NIIYaF MGU, Moscow (RU)); Pashinin, A.Yu. (ISZF SO RAN, Irkutsk (RU)), e-mail: pekines_41@mail.ru

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Global'nyj impul'snyj vsplesk geomagnitnykh pul'satsij v chastotnom diapazone 0.2-5 Gts kak predvestnik vnezapnogo nachala geomagnitnoj buri Svyatogo Patrika 17.03.2015

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S79

Smirnova, N.F.; Stanev, G.; Mulyarchik, T.M. (IKI RAN, Moscow (RU)), e-mail: nsmirnova@romance.iki.rssi.ru

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K voprosu dostovernosti opredeleniya potentsiala #Left-Pointing Double Angle Quotation Mark#Interbol-2#Right-Pointing Double Angle Quotation Mark#

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Chugunin, D.V.; Kotova, G.A. (IKI RAN, Moscow (RU)); Klimenko, M.V. (Kaliningradskij Filial IZMIRAN im. N.V. Pushkova, Kaliningrad (RU)); BFU im. I. Kanta, Kaliningrad (RU)); Klimenko, V.V.; Zakharenkova, I.E. (Kaliningradskij Filial IZMIRAN im. N.V. Pushkova, Kaliningrad (RU)), e-mail: dimokch@iki.rssi.ru

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Yakhnina, T.A.; Yakhnin, A.G.; Semenova, N.V. (PGI, Apatity (RU)), e-mail: semenova@pgia.ru

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Bezrodnykh, S.I. (GAISH MGU, FITs IU RAN, Moscow (RU)); Somov, B.V. (GAISH MGU, Moscow (RU)), e-mail: sbezrodnykh@mail.ru, somov@sai.msu.ru

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Bogdanov, V.V. (IKIR DVO RAN, Paratunka (RU)), e-mail: vbogd@ikir.ru

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K voprosu rascheta tret'ego adiabaticeskogo invarianta v potokovoj forme v aksial'nykh magnitnykh polyakh i nekotorye sledstviya ego sokhraneniya

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Burinskaya, T.M.; Shevelev, M.M. (IKI RAN, Moscow (RU)), e-mail: tburinsk@iki.rssi.ru

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Volokitin, A.S.; Krafft, K. (IZMIRAN, Troitsk (RU); IKI RAN, Moscow (RU)), e-mail: a.volokitin@mail.ru

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Interaction of low-frequency waves with inhomogeneous plasma structures: active ionospheric experiments, laboratory and numerical simulation

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Ajdakina, N.A.; Gushchin, M.E.; Zudin, I.Yu. (IPF RAN, Nizhnij Novgorod (RU)), e-mail: mguschin@appl.sci-nnov.ru (and others)

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Vzaimodejstvie nizkочastotnykh voln s neodnorodnymi plazmennymi strukturami: aktivnye ionosfernye ehksperimenty, laboratornoe i chislennoe modelirovanie

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Loznikov, V.M.; Erokhin, N.S.; Zol'nikova, N.N.; Mikhajlovskaya, L.A. (IKI RAN, Moscow (RU)), e-mail: nerokhin@iki.rssi.ru

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Zavershinskij, D.I.; Molevich, N.E. (SGAU, SF FIAN, Samara (RU)), e-mail: dimanzav@mail.ru

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Modelirovanie ehvolyutsii neustojchivykh bystrykh i medlennykh magnitoakusticheskikh voln v opticheski tonkoj plazme
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Klimushkin, D.Yu.; Mager, P.N.; Kostarev, D.A.; Chelpanov, M.A. (ISZF SO RAN, Irkutsk (RU)), e-mail: klimush@iszf.irk.ru

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Krasovskij, V.L.; Kiselev, A.A. (IKI RAN, Moscow (RU); MFTI, Dolgoprudnyj (RU)), e-mail: vkrasov@iki.rssi.ru

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Laptukhov, A.I.; Rukhadze, A.A. (IZMIRAN, Moscow (RU); IOF RAN, Moscow (RU)), e-mail: a.laptukhov@mail.ru, rukh@fpl.gpi.ru

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K otsenke razmera ehlektrona na osnove rascheta polnoj ehnergii ego magnitnogo polya i magnitnogo momenta

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Izvekova, Yu.N.; Popel', S.I. (IKI RAN, Moscow (RU)), e-mail: izvekova@iki.rssi.ru

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Koryukin, V.M.; Koryukin, A.V. (MarGU, Joshkar-Ola (RU)), e-mail: vmkoryukin@gmail.com

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Plasma flow in the vicinity of reconnecting current sheet in intense magnetic field approximation**S70**

Kolesnikov, N.P.; Bezrodnykh, S.I.; Somov, B.V. (GAISH MGU, Moscow (RU)), e-mail: nick206265@gmail.com

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Investigation of kinetic effects in ion dynamics in closed magnetoplasma configurations with magnetic field shear

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Malykhin, A.Yu. (IKI RAN, Moscow (RU); MFTI, Dolgoprudnyj (RU)); Grigorenko, E.E. (IKI RAN, Moscow

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Mingalev, O.V.; Mingalev, I.V.; Mel'nik, M.N. (PGI KNTs RAN, Apatity (RU)); Malova, Kh.V. (IKI RAN, Moscow (RU)); NIIYaF im. D.V. Skobel'tsyna, MGU, Moscow (RU)); Zelenyj, L.M. (IKI RAN, Moscow (RU)), e-mail: mingalev_o@pgia.ru

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Mingalev, O.V.; Mingalev, I.V.; Mel'nik, M.N. (PGI KNTs RAN, Apatity (RU)), e-mail: mingalev_o@pgia.ru

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Current sheet structure in dependence of sheet forming conditions

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Frank, A.G.; Ostrovskaya, G.V. (IOF RAN, Moscow (RU)), e-mail: annfrank@fpl.gpi.ru

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Struktura tokovykh sloev v zavisimosti ot uslovij formirovaniya sloya
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PLASMA DENSITY; ELECTRIC CURRENTS

Electron scattering in magnetic field of Earth magnetosphere current sheet S79;S58

Shustov, P.I.; Artem'ev, A.V.; Yushkov, E.V. (FF MGU im. Lomonosova, Moscow (RU)), e-mail: p.shustov@gmail.com

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Rasseyanie ehlektronov v magnitnom pole tokovogo sloya magnitosfery Zemli

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Collisionless current sheet in uniform gravitational field S79

Veselovskij, I.S.; Kislov, R.A. (IKI RAN, Moscow (RU)), e-mail: kr-rk@bk.ru

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On spatial distribution of gas-kinetic pressure of plasma ionic component in different formation modes of laboratory current sheets

S70
Kirij, N.P.; Markov, V.S.; Frank, A.G.; Vasil'kov, D.G.; Voronova, E.V. (IOF RAN, Moscow (RU)), e-mail: kyrie@fpl.gpi.ru

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Demonstration of quasi-biennial periodicity in properties of chaotic variations of certain indexes of solar activity

S79
Kostyuchenko, I.G. (NIFKhI im. L.Ya. Karpova, Moscow (RU)), e-mail: irkost@itep.ru

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Complicated topology of magnetic field in simple system of electric currents

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Veselovskij, I.S. (NIIYaF MGU, Moscow (RU)); IKI RAN, Moscow (RU)); Lukashenko, A.T. (NIIYaF MGU, Moscow (RU)), e-mail: a_lu@mail.ru

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Role of solitons in the processes of charged particle transport in plasma

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Trukhachev, F.M. (BRU, Mogilev (BY)); Tomov, A.V. (MGU im. A. Kuleshova, Mogilev (BY)), e-mail: ftu@mail.ru

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 Rol' solitonov v protsessakh perenosa zaryazhennykh chastits v plazme
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Non-local transport by drift-wave vortices, a paradigmatic if openly revised approach
S70

Milovanov, A.V. (ENEA Centro Ricerche Frascati, Via Enrico Fermi (IT); SRI, RAS, Moscow (RU))

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New diagnostic sensor for measurements of ionosphere plasma concentrations and fluctuations on micro- and nano-satellites

S70;S58

Kostrov, A.V.; Yanin, D.V.; Galka, A.G.; Strikovskij, A.V.; Gushchin, M.E.; Korobkov, S.V. (IPF RAN, Nuzhnyj Novgorod (RU)), e-mail: kstr@appl.sci-nnov.ru

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Novyj diagnosticheskij datchik dlya izmerenij na mikro- i nano-sputnikakh kontsentratsii i fluktuatsij ionosfernoj plazmy

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ELECTRIC RESONANCE; RESONATORS; ELECTROMAGNETIC RADIATION; SENSORS

Measurements of UV and corpuscular radiation fluxes in near-earth space on small satellites for using in numerical models while investigating and monitoring exoatmospheric impacts

S79;S58

Krivolutskij, A.A.; Kukoleva, A.A.; V'yushkova, T.Yu.; Garipov, G.K. (TsAO ROSGIDROMETA, Dolgoprudnyj (RU); NIIYaF MGU, Moscow (RU)), e-mail: krivolutsky@mail.ru

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Izmereniya potokov UF i korpuskulyarnoj radiatsii v okolozemnom prostranstve na mal'yx sputnikakh dlya ispol'zovaniya v chislennykh modelyakh pri issledovanii i monitoringe vneatmosferykh vozdeystvij

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ULTRAVIOLET RADIATION; SOLAR PROTONS; SOLAR ELECTRONS; SATELLITES;
COMPUTERIZED SIMULATION; OZONE LAYER; CORRELATIONS; EARTH ATMOSPHERE

Investigation of complex non-uniform ionosphere structure using nano-satellites

S70;S58

Chernyshov, A.A.; Chugunin, D.V.; Mogilevskij, M.M.; Moiseenko, I.L. (IKI RAN, Moscow (RU)), e-mail: achernyshov@iki.rssi.ru

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Issledovaniya slozhnoj neodnorodnoj struktury ionosfery s ispol'zovaniem nanosputnikov

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IONOSPHERE; EARTH MAGNETOSPHERE; AURORAL ZONES; SATELLITES; INHOMOGENEOUS PLASMA; NONLINEAR PROBLEMS; MATHEMATICAL MODELS; SIGNALS; NAVIGATION; CORRELATIONS; PLASMA INSTABILITY

Scientific gear for #Left-Pointing Double Angle Quotation Mark#Kubsat#Right-Pointing Double Angle Quotation Mark# type space vehicle for Earth ionosphere research S70;S58

Afonin, V.V. (IKI RAN, Moscow (RU)), e-mail: vvafonin@iki.rssi.ru

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Nauchnaya apparatura dlya KA tipa #Left-Pointing Double Angle Quotation Mark#Kubsat#Right-Pointing Double Angle Quotation Mark# dlya provedeniya issledovanij zemnoj ionosfery

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On the sensor for measuring solar wind flow electromagnetic quality

S70;S79

Gubchenko, V.M. (IPF RAN, Nizhnij Novgorod (RU)), e-mail: ua3thw@appl.sci-nnov.ru

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O datchike dlya izmereniya ehlektromagnitnoj dobrotnosti potoka solnechnogo vetra

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SOLAR WIND; COLLISIONLESS PLASMA; ANISOTROPY; HYDROMAGNETIC WAVES; FLOW RATE; PLASMA WAVES; EARTH MAGNETOSPHERE; ELECTROMAGNETIC FIELDS; DISTRIBUTION FUNCTIONS; ELECTRIC IMPEDANCE; MAGNETIC PROBES; COMPUTERIZED SIMULATION

Identification algorithm of disturbances of ionospheric glow fields caused by anthropogenic reasons against a background of natural auroral structures

S70;S58

Galich, G.A. (IF NANU, Kiev (UA)); Kruchenitskij, G.M.; Potanin, Yu.N. (FGBU #Left-Pointing Double Angle Quotation Mark#TsAO#Right-Pointing Double Angle Quotation Mark#, Dolgoprudnyj (RU)); Kuz'min, A.K. (IKI RAN, Moscow (RU)); Shchukin, G.G. (VKA im. Mozhajskego, Sankt-Peterburg (RU)), e-mail: galich@iop.kiev.ua, omd@cao-rhms.ru, alkkuzmin@mail.ru, ggshchukin@mail.ru

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Algoritm identifikatsii vozmushchenij polej ionosfernykh svechenij, obuslovlennykh antropogennymi prichinami na fone estestvennykh avroral'nykh struktur

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Space weather forecast center

S79

Gajdash, S.P.; Abunin, A.A.; Abunina, M.A.; Belov, A.V. (IZMIRAN, Moscow (RU)), e-mail: gaidash@izmiran.ru

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Tsentr prognozov kosmicheskoy pogody

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FORECASTING; INTERPLANETARY SPACE; GEOMAGNETIC FIELD; SOLAR ACTIVITY; SOLAR ELECTRONS; SOLAR PROTONS; MEV RANGE; COMPARATIVE EVALUATIONS; ACCURACY; COMPUTERIZED SIMULATION

Effect of solar and geomagnetic activity on GPS/GLONASS measurements in high latitudes

S79;S58

Zakharov, V.I. (FF MGU im. M.V. Lomonosova, Moscow (RU); ISZF SO RAN, Irkutsk (RU)); Yasyukevich, Yu.V. (ISZF SO RAN, Irkutsk (RU)); Ignatov, K.A.; Sheveleva, E.N. (FF MGU im. M.V. Lomonosova, Moscow (RU)), e-mail: zvi_555@list.ru

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Vliyanie solnechnoj i geomagnitnoj aktivnosti na GPS/GLONASS izmereniya v vysokikh shirotakh

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Radiation monitoring system in ambient cosmic space and planned orbits

S79

Kalegaev, V.V.; Panasyuk, M.I.; Bobrovnikov, S.Yu. (NIIYaF MGU, Moscow (RU)), e-mail: klg@dec1.sinp.msu.ru (and others)

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Sistema radiatsionnogo monitoringa v okruzhayushchem kosmicheskom prostranstve i na zadannykh orbitakh

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SPACE; SATELLITES; RADIATION MONITORING; SOLAR ACTIVITY; COSMIC RADIATION; MEV
 RANGE

Information board (display) on space weather

S97;S58

*Kanonidi, K.Kh.; Zajtsev, A.N.; Petrov, V.G.; Gideon, A.A.; Abragimov, A.S. (IZMIRAN, Troitsk (RU)); OOO
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Informatsionnaya doska (displej) po kosmicheskoy pogode

p. 152-153

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DISPLAY DEVICES; INTERNET; COMPUTER CODES; FORECASTING; AURORAE; IONOSPHERE;
 AURORAL ZONES; DATA PROCESSING

Application of numerical models of ionosphere and radiowaves propagation for estimating influence of geomagnetic storms and stratospheric warmings on the functioning of over-the-horizon radar

S97;S58

*Kotova, D.S.; Klimenko, M.V. (BFU im. Immanuila Kanta, Kaliningrad (RU)); KF IZMIRAN im. N.V.
 Pushkova, Kaliningrad (RU)); Klimenko, V.V. (KF IZMIRAN im. N.V. Pushkova, Kaliningrad (RU));
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Primenenie chislennykh modelej ionosfery i rasprostraneniya radiovoln dlya otsenki vliyaniya

geomagnitnykh bur' i stratosfernykh poteplenij na rabotu zagorizontnykh radiolokatsionnykh stantsij

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IONOSPHERE; MAGNETIC STORMS; SHORT WAVE RADIATION; RADAR; COMPUTER CODES; ALGORITHMS; MATHEMATICAL MODELS; WAVE PROPAGATION

Probabilistic models of ionosphere for short-wave over-the-horizon radars

S97;S58

Lyakhov, A.N.; Kozlov, S.I.; Bekker, S.Z. (IDG RAN, Moscow (RU)); Ponomarchuk, S.N.; Tashchilin, A.V.; Romanova, E.B.; Kurkin, V.I.; Penzin, M. (ISZF SORAN, Irkutsk (RU)), e-mail: alyakhov@idg.chph.ras.ru

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Veroyatnostnye modeli ionosfery dlya ZGRLS KV diapazona

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Forecasting of relativistic electron flow of outer-radiation zone using adaptive methods

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Myagkova, I.N.; Dolenko, S.A.; Shirokij, V.R. (MGU im. M.V. Lomonosova, NIIYaF im. D.V. Skobel'tsyna, Moscow (RU)); Efitorov, A.O.; Sentemova, N.S. (MGU im. M.V. Lomonosova, NIIYaF im. D.V. Skobel'tsyna, Moscow (RU)); MGU im. M.V. Lomonosova, FF, Moscow (RU)), e-mail: irina@srd.sinp.msu.ru

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Podladchikova, T. (Skolkovskij INT, Moscow (RU)); Shprits, Yu. (Earth, Planetary, and Space Sciences, Univ. of California, Los Angeles, CA (US)); Dept. of Earth, Atmospheric and Planetary Sciences, Massachusetts Inst. of Technology, Cambridge, MA (US)); Kelerman, A. (Earth, Planetary, and Space Sciences, Univ. of California, Los Angeles, CA (US))

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Rogov, D.D.; Ul'ev, V.A. (AANII, Sankt-Peterburg (RU)), e-mail: rogovdenis@mail.ru

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Samsonov, A.A. (SPbGU, Sankt-Peterburg (RU)), e-mail: andre.samsonov@gmail.com

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Teokharov, A.N.; Vinogradov, A.G. (OAO RTI im. A.L. Mints, Moscow (RU)); Adzhemov, S.S.; Lobov, E.M. (FGOBU VPO MTUSI, Moscow (RU)), e-mail: ateokharov@rti-mints.ru

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Pryamaya otsenka polnogo ehlektronnogo soderzhaniya ionosfery (TEC) s ispol'zovaniem spetsial'noj obrabotki shirokopolosnogo radiolokatsionnogo signala

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Simulation and forecast of solar wind parameters according to STOP magnetograph observation data

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Tlatov, A.G. (Kislovodskaya GAO RAN, Kislovodsk (RU)); Svidskij, P.M. (IPG im. Fedorova, Moscow (RU)); Demidov, M.L. (FBGUN ISZF SO RAN, Irkutsk (RU)), e-mail: tlatov@mail.ru, svidsky@mail.ru, demid@iszf.irk.ru

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PC index and interplanetary electric field E_KL interacting with magnetosphere

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Troshichev, O.A.; Sormakov, D.A. (AA NII, Sankt-Peterburg (RU)), e-mail: olegtro@aari.ru

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Characteristics of creating orbital imager Aurovisor-VIS/MP and prospects of auroral images use for investigating processes in polar ionosphere and optical control of conditions non-uniformity effecting on signal propagation

S79;S58

Kuz'min, A.K.; Ban'shchikova, M.A.; Dobrolenskij, Yu.S.; Kruchenitskij, G.M.; Maslov, I.A.; Merzlyj, A.M.; Moiseev, P.P.; Potanin, Yu.N.; Chuvashov, I.N. (IKI RAN, Moscow (RU)), e-mail: alkkuzmin@mail.ru

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Lyakhov, A.N.; Kuz'micheva, M.Yu.; Loseva, T.V. (IDG RAN, Moscow (RU)), e-mail: alyakhov@idg.chph.ras.ru

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Rogov, D.D.; Ul'ev, V.A. (AANII, Sankt-Peterburg (RU)), e-mail: rogovdenis@mail.ru

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Chermenin, A.V.; Lyakhov, A.N.; Loseva, T.V. (IDG RAN, Moscow (RU)), e-mail: alyakhov@idg.chph.ras.ru

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Kuzichev, I.V. (IKI RAN, Moscow (RU)); Shklyar, D.R. (IKI RAN, Moscow (RU)); MFTI GU, Moscow (RU)), e-mail: kuzicheviv@gmail.com

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Lyubchich, A.A.; Demekhov, A.G.; Titova, E.E.; Yakhnin, A.G. (PGI, Apatity (RU)), e-mail: lubchich@pgia.ru

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Pasmanik, D.L.; Demekhov, A.G. (IPF RAN, Nizhnij Novgorod (RU)); Gajosh, M. (IAP, AS of the CR, Prague (CZ)); Nemets, F. (IAP, AS of the CR, Prague (CZ)); Faculty of Mathematics and Physics, CU in Prague, Prague (CZ)); Santolik, O. (Faculty of Mathematics and Physics, CU in Prague, Prague (CZ)); Parro, M. (LPC2E/CNRS, Orleans (FR)), e-mail: pdl@aurora.appl.sci-nnov.ru

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Polyakov, S.V.; Frolov, V.L. (FGBNU NIRFI, Nizhnij Novgorod (RU))

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Titova, E.E.; Kozelov, B.V. (PGI, Apatity (RU)); Demekhov, A.G. (PGI, Apatity (RU)); IPF RAN, Nizhnij Novgorod (RU); Pasmanik, D.L. (IPF RAN, Nizhnij Novgorod (RU)); Manninen, Yu. (Geofizicheskaya Observatoriya Sodankyulya, Sodankyulya (FI)); Santolik, O. (IFA AN ChR, Praga (CZ)); Klettsing, K. (Univ. Ajovy, Ajova (US)); Rivs, Dzh. (Los-Alamoskaya Natsional'naya Lab., Los Alamos (US)), e-mail: lena.titova@gmail.com

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*Fedorenko, Yu.V.; Larchenko, A.V.; Nikitenko, A.S.; Pil'gaev, S.V.; Lebed', O.M. (PGI, Apatity (RU)), e-mail:
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Effects of charged particles interaction with quasioleostatic high-amplitude whistle waves in Van Allen belts

S71;S58

Shklyar, D.R. (IKI RAN, Moscow (RU)); Titova, E.E. (PGI, Apatity (RU)), e-mail: lena.titova@gmail.com

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Poynting flux directions of VLF chorus emissions in their source region as inferred from THEMIS data

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Demekhov, A.G. (PGI, Apatity (RU); Inst. of Applied Physics, Nizhny Novgorod (RU)); Taubenschuss, U.; Santolik, O. (Inst. of Atmospheric Physics, Prague (CZ)), e-mail: andrei@appl.sci-nnov.ru

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Generation of suprathermal electrons fluxes by nonlinear electrostatic structures

S79

Vasko, I. (SRI (IKI) of RAS, Moscow (RU)); Agapitov, O.; Mozer, F. (SS L, UC Berkeley, Berkeley (US)); Artyemyev, A. (SRI (IKI) of RAS, Moscow (RU)); UCLA, Los Angeles (US)); Drake, J. (Univ. of Maryland, College Park (US)), e-mail: vaskoiy@gmail.com

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S79;S58

Popova, T.A.; Yakhnin, A.G. (PGI, Apatity (RU)), e-mail: tarkada@yandex.ru

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Problems of auroral oval projection and discrete auroral arcs forming

S79

Antonova, E.E.; Ryazantseva, M.O.; Znatkova, S.S. (NIIYaF MGU, Moscow (RU); IKI RAN, Moscow (RU)), e-mail: elizaveta.antonova@gmail.com (and others)

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Belakhovskij, V.B. (PGI, Apatity (RU)); Pilipenko, V.A. (IFZ RAN, Moscow (RU)); Samsonov, S.N. (IKFIA SO RAN, Yakutsk (RU)); Lorentsen, D. (Universitetskij Tsentr na Shpitsbergene, Longjir (NO)), e-mail: belakhov@mail.ru

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S79;S58

Belashov, V.Yu. (FU KGEhU, Kazan' (RU)); Belashova, E.S. (KNITU im. A.N. Tupoleva, Kazan' (RU)), e-mail: vybelashov@yahoo.com

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Volkov, M.A. (MGTU, Murmansk (RU)), e-mail: volkovma@mstu.edu.ru

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Gulyaeva, T.L. (IZMIRAN, Moscow (RU)), e-mail: gulyaeva@izmiran.ru

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Kozelov, B.V.; Roldugin, A.V.; Turyanskij, A.V.; Fedorenko, Yu.V.; Gomonov, A.D. (PGI, Apatity (RU)), e-mail: Boris.Kozelov@gmail.com

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Moiseev, A.V.; Baishev, D.G.; Iozumi, T.; Ioshikava, A.; Du, A. (IKFIA SO RAN, Yakutsk (RU)), e-mail: moiseev@ikfia.sbras.ru

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Use of PC-index as input parameter in auroral precipitations empirical model #Left-Pointing Double Angle Quotation Mark#OVATION-prime#Right-Pointing Double Angle Quotation Mark#

S79;S58

Nikolaeva, V.D.; Troshichev, O.A. (AA NII, Sankt-Peterburg (RU)); Nikolaev, A.V. (SGU, Sankt-Peterburg (RU)); N'yuehll, P.T. (APL, John Hoppkins Univ., Lawrell (US))

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Ispol'zovanie PC-indeksa v kachestve vkhodnogo parametra v ehmpiricheskoy modeli avroral'nykh vysypanij

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Nosikova, N.S.; Yagova, N.V.; Pilipenko, V.A.; Kozyreva, O.V.; Lorentzen, D.; Baddelej, L. (IFZ RAN, NIYaU MIFI, Moscow (RU)), e-mail: natanosik@yandex.ru

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S79;S58

Ruzhin, Yu.Ya.; Kuznetsov, V.D.; Plastinin, Yu.A.; Karabadzhak, G.F. (IZMIRAN, Troitsk (RU)), e-mail: ruzhin@izmiran.ru

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The relationship between PC index and longitudinal magnetospheric currents R1 and R2 measured on SWARM satellites

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Troshichev, O.; Sormakov, D. (AA NII, Sankt-Peterburg (RU)); Stolle, K.; Matska, Yu. (Nemetskij TsIG (GFZ), Potsdam (DE))

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Simulation of polarization characteristics of signal scattered on auroral irregularities of ionosphere

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Tyutin, I.V.; Ovodenko, V.B.; Pushaj, S.A. (OAO NPK #Left-Pointing Double Angle Quotation Mark#NIIDAR#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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 CORRELATIONS; COMPARATIVE EVALUATIONS

Daytime polar electrojet during recovering phase of magnetic storm on May 30, 2003

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Levitin, A.E.; Gromova, L.I.; Klejmenova, N.G.; Dremukhina, L.A.; Antonova, E.E.; Zelinskij, N.R.; Gromov, S.V.; Malysheva, L.M. (IZMIRAN,Troitsk (RU)), e-mail: gromova@izmiran.ru

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Magnetospheric substorms near maxima of the 23th and 24th solar cycles

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Dehsipirak, I.V.; Lyubchich, A.A. (PGI RAN, Apatity (RU)); Klejmenova, N.G. (IFZ RAN, Moscow (RU)), e-mail: despirak@gmail.com

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Evdokimova, M.A.; Petrukovich, A.A. (IKI RAN, Moscow (RU)), e-mail: evdokimari@mail.ru

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Kozelova, T.V.; Kozelov, B.V. (PGI, Apatity (RU)), e-mail: Boris.Kozelov@gmail.com

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Observations of daytime polar cusp on the B. Tiksi auroral station

S79;S58

Khalipov, V.L. (IKI RAN, Moscow (RU)); Stepanov, A.E. (IKFIA SO RAN, Yakutsk (RU)); TISVFU, Yakutsk (RU); Telegin, V.A.; Panchenko, V.A. (IZMIRAN, Troitsk (RU)), e-mail: khalipov@iki.rssi.ru

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Reasons of breakdown of correlation relationships between anomalies of low cloud and variations of galactic cosmic rays flux

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Veretenenko, S.V. (FTI im. A.F. Ioffe RAN, Sankt-Peterburg (RU)), e-mail: s.veretenenko@mail.ioffe.ru

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Prichiny narusheniya korrelyatsionnykh svyazey mezhdru anomalijami nizhnej oblachnosti i variatsiyami potoka galakticheskikh kosmicheskikh luchej

p. 189

(RU)

Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)

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INIS-RU--602

Moscow (RU)

IKI RAN

2016

225 p.

COSMIC PHOTONS; CLOUDS; CORRELATIONS; VARIATIONS; CYCLONES

On possible influence of solar magnetic field reversal on height dependence of galactic cosmic rays in polar cap

S79

Vorob'ev, V.A. (IGKEh ROSGIDROMETA i RAN, Moscow (RU)), e-mail: v.vorobyev.igce@yandex.ru

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O vozmozhnom vliyanii perepolyusovki magnitnogo polya Solntsa na vysotnyj khod GKL v polyarnoj shapke

p. 189-190

(RU)

Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)

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2016

225 p.

POLAR REGIONS; COSMIC RADIATION; INTERPLANETARY SPACE; RADIATION MONITORING;
SUN; MAGNETIC FIELD REVERSAL; COMPARATIVE EVALUATIONS; ICE CAPS

Global structure of Earth atmosphere temperature response induced by Solar UV radiation flux variations in the cycle of its activity

S79

Krivolutskij, A.A.; Cherepanova, L.A.; Dement'eva, A.V.; Banin, M.V. (TsAO ROSGIDROMETA, Dolgoprudnyj (RU)), e-mail: alleven@yandex.ru

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Global'naya struktura temperaturnogo otklika atmosfery Zemli, vyzvannaya variatsiyami potoka UF radiatsii Solntsa v tsikle ego aktivnosti

p. 191

(RU)

2 refs.

Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)

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225 p.

SOLAR ACTIVITY; SOLAR CYCLE; ULTRAVIOLET RADIATION; MATHEMATICAL MODELS; RESPONSE FUNCTIONS; EARTH ATMOSPHERE; COMPARATIVE EVALUATIONS; CORRELATIONS

Earth paleoclimate and Solar activity

S79

Dergachev, V.A. (FTI im. A.F. Ioffe RAN, Sankt-Peterburg (RU)), e-mail: v.dergachev@mail.ioffe.ru

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Paleoklimat Zemli i solnechnaya aktivnost'

p. 192

(RU)

Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)

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2016

225 p.

SOLAR ACTIVITY; CLIMATES; PALEOCLIMATOLOGY; EARTH PLANET; TIME DEPENDENCE; COMPARATIVE EVALUATIONS; CORRELATIONS

Simulation of solar proton flares influence on Earth atmosphere

S79

Krivolutskij, A.A.; V'yushkova, T.Yu.; Kukoleva, A.A. (TsAO ROSGIDROMETA, Dolgoprudnyj (RU)), e-mail: krivolutsky@mail.ru

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Modelirovanie vozdejstviya solnechnykh protonnykh vspyshek na atmosferu Zemli

p. 193

(RU)

4 refs.

Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow

(RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)

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2016

225 p.

EARTH ATMOSPHERE; SOLAR FLARES; SOLAR PROTONS; COMPUTERIZED SIMULATION;
POLAR REGIONS; COMPARATIVE EVALUATIONS

Earth ozonosphere changes during the period of deep minimum of solar activity in 2003-2010 (three-dimensional photochemical simulation)

S79

Kukoleva, A.A.; Krivolutskij, A.A.; V'yushkova, T.Yu. (TsAO ROSGIDROMETA, Dolgoprudnyj (RU)), e-mail: kuan-2012@yandex.ru

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Izmeneniya v ozonofere Zemli v period glubokogo minimuma solnechnoj aktivnosti v period 2003-2010 gg. (trekhmernoe fotokhimicheskoe modelirovanie)

p. 194

(RU)

Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow

(RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)

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225 p.

SOLAR ACTIVITY; OZONE LAYER; STRATOSPHERE; PHOTOCHEMISTRY; SOLAR CYCLE;
ULTRAVIOLET RADIATION; SOLAR RADIATION; TROPOSPHERE; CONCENTRATION RATIO;
OZONE; SIMULATION; COMPARATIVE EVALUATIONS

Dynamics of regular and episodic events according to the data of magnetometric system (materials of #Left-Pointing Double Angle Quotation Mark#Shuman#Right-Pointing Double Angle Quotation Mark# project)

S79;S58

Kuksa, Yu.I. (TsGEhMI IFZ RAN, Troitsk (RU)); Teodosiev, D. (IKIT BAN, Sofiya (BG)); Shibaev, I.G. (IZMIRAN, Troitsk (RU)), e-mail: ishib@izmiran.ru

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Dinamika reguljarnykh i ehvizodicheskikh sobytij po dannym magnitometricheskogo kompleksa (materialy proekta #Left-Pointing Double Angle Quotation Mark#Shuman#Right-Pointing Double Angle Quotation Mark#)

p. 194-195

(RU)

2 refs.

Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)

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2016

225 p.

MAGNETOMETERS; GEOMAGNETIC FIELD; DISTURBANCES; SOLAR WIND; CORRELATIONS; CLOUDS

International experiment CLOUD in CERN

S79

Makhmutov, V.S. (FIAN im. P.N. Lebedeva, Moscow (RU)), e-mail: makhmutv@sci.lebedev.ru

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Mezhdunarodnyj ehksperiment CLOUD v TsERNe

p. 195

(RU)

Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)

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2016

225 p.

CERN; COSMIC RADIATION; CHARGED PARTICLES; EARTH ATMOSPHERE; COMPARATIVE EVALUATIONS

Effect of energetic particles of Earth atmosphere

S79;S58

Mironova, I.A. (SPbGU, Sankt-Peterburg (RU)), e-mail: i.a.mironova@spbu.ru

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Vozdejstvie ehnergichnykh chastits na atmosferu Zemli

p. 195

(RU)

Rossiyskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)

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225 p.

EARTH ATMOSPHERE; SOLAR PARTICLES; COSMIC RADIATION; CLIMATES; CORRELATIONS

Cosmic climate and Earth climate

S79;S58

Nagovitsyn, Yu.A. (GAO RAN (Pulkovskaya), Sankt-Peterburg (RU)), e-mail: nag@gao.spb.ru

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Kosmicheskij klimat i klimat Zemli

p. 196

(RU)

Rossiyskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)

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2016

225 p.

CLIMATES; EARTH PLANET; SOLAR ACTIVITY; CORRELATIONS; COMPARATIVE EVALUATIONS

Cosmic rays and atmospheric processes

S79

Stozhkov, Yu.I. (FIAN, Moscow (RU)), e-mail: stozhkov@fian.fiandns.mipt.ru

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Kosmicheskie luchy i atmosferye protsessy
p. 197
(RU)

Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)
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Moscow (RU)
IKI RAN
2016
225 p.

EARTH ATMOSPHERE; COSMIC RAY FLUX; COSMIC RADIATION; POLAR REGIONS; CLIMATES; COMPARATIVE EVALUATIONS; CORRELATIONS; ELECTRIC CHARGES

#Left-Pointing Double Angle Quotation Mark#Oscillations of Sun#Right-Pointing Double Angle Quotation Mark# in 297-330 nm range according to the data of ground spectral observations on Novolazarevskaya station (Antarctica)

S79
Shapovalov, S.N.; Troshichev, O.A.; Bezgreshnov, A.M. (GNTs RF AANII, Sankt-Peterburg (RU)), e-mail: shapovalov@aari.ru, olegtro@aari.ru

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#Left-Pointing Double Angle Quotation Mark#Kolebaniya Solntsa#Right-Pointing Double Angle Quotation Mark# v diapazone 297 nm - 330 nm po dannym nazemnykh spektral'nykh nablyudenij na st. Novolazarevskaya (Antarktida)
p. 198
(RU)

Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)
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2016
225 p.

ANTARCTICA; SOLAR RADIATION; ULTRAVIOLET RADIATION; VARIATIONS; MESOSPHERE; STRATOSPHERE; SOLAR ACTIVITY; COMPARATIVE EVALUATIONS

Variability of the Sun and its terrestrial impact (varsiti) - the current scientific program of the Scientific Committee for Solar Terrestrial Physics (SCOSTEP)

S79
Georgieva, K.; Shiokawa, K.; Gopalswamy, N. (SRTI BAS, Sofia (BG)), e-mail: kgeorgieva@bas.bg
The Eleventh Annual conference Plasma physics in Solar system
Moscow (RU)

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(EN)

Rossiyskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)

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Moscow (RU)

IKI RAN

2016

225 p.

INTERNATIONAL COOPERATION; SUN; EARTH PLANET; SOLAR ACTIVITY; CLIMATES; COMPARATIVE EVALUATIONS; SOLAR CYCLE; MAGNETIC FIELDS; MATHEMATICAL MODELS; CORRELATIONS

Long-time forecast of two-year oscillations of equatorial stratosphere zonal wind and corresponding changes of total ozone content in Antarctica

S79;S58

Gabis, I.P. (AANII, Sankt-Peterburg (RU)), e-mail: gabis@aari.nw.ru

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Dolgosrochnyj prognoz kvazidvukhletnikh ostillyatsij zonal'nogo vetra ehkvatorial'noj stratosfery i sootvetstvuyushchikh izmenenij obshchego sodержaniya ozona v Antarktike

p. 200

(RU)

Rossiyskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)

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2016

225 p.

ANTARCTICA; OZONE LAYER; EARTH ATMOSPHERE; WIND; EQUATOR; SOLAR ACTIVITY; SOLAR CYCLE; VARIATIONS; COMPARATIVE EVALUATIONS; CORRELATIONS; FORECASTING

Nonlinear structures of electric field and plasma in D-region of ionosphere

S70

Laptukhov, A.I.; Sorokin, V.M. (IZMIRAN, Moscow (RU)), e-mail: a.laptukhov@mail.ru

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Nelinejnye struktury ehlektricheskogo polya i plazmy v D-oblasti ionosfery

p. 215
(RU)

Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)
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INIS-RU--602
Moscow (RU)
IKI RAN
2016
225 p.

D REGION; ELECTRIC FIELDS; INHOMOGENEOUS PLASMA; MATHEMATICAL MODELS

Mechanisms of low ionosphere inhomogeneity formation as a result of global current chain disturbance

S70;S58

Sorokin, V.M. (IZMIRAN, Troitsk (RU)), e-mail: sova@izmiran.ru

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Odinnadtsataya ezhegodnaya konferentsiya Fizika plazmy v Solnechnoj sisteme

Mekhanizmy formirovaniya neodnorodnostej nizhnej ionosfery v rezul'tate vozmushcheniya global'noj tokovoj tsepi

p. 218-219

(RU)

Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)
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IKI RAN
2016
225 p.

IONOSPHERE; ELECTRIC CURRENTS; INHOMOGENEOUS PLASMA; ELECTROMOTIVE FORCE; VORTEX FLOW; DISTURBANCES

Summaries of reports of XLIV International Tulinov conference on physics of interactions of charged particles with crystals

S75;S36;S74

Panasyuk, M.I. (ed.)

Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU)

XLIV International Tulinov conference on physics of interactions of charged particles with crystals

Moscow (RU)

27-29 May 2014

XLIV mezhdunarodnaya Tulinovskaya konferentsiya po fizike vzaimodejstviya zaryazhennykh chastits s kristallami

Tezisy dokladov XLIV mezhdunarodnoj Tulinovskoj konferentsii po fizike vzaimodejstviya zaryazhennykh

chastits s kristallami
 INIS-RU--605
 Moscow (RU)
 Universitetskaya kniga
 2014
 202 p.
 (RU, EN)

LEADING ABSTRACT; MEETINGS; CRYSTAL STRUCTURE; CHANNELING; ION BEAMS;
 SPUTTERING; SCATTERING; POSITRON BEAMS; SURFACE PROPERTIES

Summaries of reports of XLIV International Tulinov conference on physics of interactions of charged particles with crystals are presented. The recent results of investigations of in the range of physics of orientation effects and electron and positron radiation in solids are discussed. The problems of scattering, sputtering emission of secondary particles and radiation effects are considered. The issues of modification and analysis of surface by means of charged particle beams are given special attention

Представлены тезисы докладов XLIV Тулиновской конференции по физике взаимодействия заряженных частиц с кристаллами. Представлены последние результаты исследований в области физики ориентационных эффектов и излучения электронов и позитронов в твердом теле. Рассмотрены вопросы рассеяния, распыления, эмиссии вторичных частиц и радиационные эффекты. Особое внимание уделено проблемам модификации и анализу поверхности с помощью пучков заряженных частиц

Nuclear synthesis and fission reactions of chemical elements and formation of new structures in dense gases: hydrogen and deuterium under 10 MeV #gamma#-quanta irradiation

S75;S36

Didyk, A. Yu. (Ob"edinennyj Inst. Yadernykh Issledovanij, Dubna (XJ)); Vishnevcki, R.; Vilchinska-Kitovska, T. (Natsional'nyj Tsentr Yadernykh Issledovanij, Otvotsk (PL))

XLIV International Tulinov conference on physics of interactions of charged particles with crystals

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Yadernye reaktsii sinteza i deleniya khimicheskikh ehlementov i obrazovanie novykh struktur v plotnykh gazakh: vodorode i dejterii pri vozdejstvii #gamma#-kvantov s ehnergiyami 10 MehV

p. 3

(RU)

4 refs.

Panasyuk, M.I. (ed.)

Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU)

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Moscow (RU)

Universitetskaya kniga

2014

202 p.

PALLADIUM; GAMMA RADIATION; HYDROGEN; DEUTERIUM; PRESSURE RANGE MEGA PA
 10-100; MEV RANGE 01-10; MICROANALYSIS; X-RAY SPECTROSCOPY; SCANNING ELECTRON

Comparison of efficiency of different mechanisms of high-energy charged particle deflection by bent crystal

S75

Shul'ga, N.F.; Kirillin, I.V. (ITF NNTs KhFTI, Khar'kov (UA))

XLIV International Tulinov conference on physics of interactions of charged particles with crystals

Moscow (RU)

27-29 May 2014

XLIV mezhdunarodnaya Tulinovskaya konferentsiya po fizike vzaimodejstviya zaryazhennykh chastits s kristallami

Sravnienie ehffektivnosti razlichnykh mekhanizmov otkloneniya vysokoehnergeticheskikh zaryazhennykh chastits izognutym kristallom

p. 4

(RU)

3 refs.

Panasyuk, M.I. (ed.)

Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU)

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Tezisy dokladov XLIV mezhdunarodnoj Tulinovskoj konferentsii po fizike vzaimodejstviya zaryazhennykh chastits s kristallami

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Moscow (RU)

Universitetskaya kniga

2014

202 p.

ELECTRON BEAMS; ION BEAMS; CHARGED PARTICLES; CRYSTALS; CHANNELING; TRAJECTORIES; GEV RANGE 01-10; EFFICIENCY; COMPUTERIZED SIMULATION; ANGULAR DISTRIBUTION

Comparison of efficiencies of channeling and multiple volumetric reflection in one crystal for superhigh-energy beam collimation

S75

Sytov, A.I.; Tikhomirov, V.V. (Inst. Yadernykh Problem BGU, Minsk (BY))

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27-29 May 2014

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Sravnienie ehffektivnostej kanalirovaniya i mnogokratnogo ob"emnogo otrazheniya v odnom kristalle dlya kollimatsii puchkov sverkhvysokikh ehnergij

p. 5

(RU)

2 refs.

Panasyuk, M.I. (ed.)

Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU)

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zaryazhennykh chastits s kristallami
INIS-RU--605
Moscow (RU)
Universitetskaya kniga
2014
202 p.

CHANNELING; BEAM OPTICS; REFLECTION; CRYSTALS; EFFICIENCY; TUNGSTEN; ANGULAR DISTRIBUTION

Features of multicharged ion radiation near Cherenkov threshold

S75

Ivanova, I.A.; Malyshevskij, V.S. (Yuzhnyj Federal'nyj Univ., Rostov-na-Donu (RU))

XLIV International Tulinov conference on physics of interactions of charged particles with crystals

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Osobennosti izlucheniya mnogozaryadnykh ionov vblizi Cherenkovskogo poroga

p. 6

(RU)

1 ref.

Panasyuk, M.I. (ed.)

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On mechanism of Kikuchi lines narrowing and broadening in long-range effect

S75

Levshunova, V.L.; Pitirimova, E.A. (Nauchno-Issledovatel'skij Fiziko-Tekhnicheskij Inst. NNGU, Nizhnij Novgorod (RU)); Pokhil, G.P. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, MGU imeni M.V. Lomonosova, Moscow (RU))

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O mekhanizme suzheniya i rasshireniya linij Kikuchi v ehffekte dal'nodejstviya

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Investigation of anomalous (continuous) high-frequency temperature waves excited at hypersound generation and cavitation

S42

Vysotskij, V.I.; Vasilenko, A.O. (Kievskij Univ. im. T. Shevchenko, Kiev (UA)); Kornilova, A.A. (MGU im. M.V. Lomonosova, Moscow (RU)); Tomak, V.I. (NII EhM pri MGTU (MVTU) im. N.Eh. Baumana, Moscow (RU))

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Issledovanie anomal'nykh (nezatukhayushchikh) vysokochastotnykh temperaturnykh voln, vzbuzhdaemykh pri generatsii giperzvuka i kavitatsii

p. 8

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Thermal resonance in multicomponent media

S42

Vysotskij, V.I.; Vasilenko, A.O. (Kievskij Univ. im. T. Shevchenko, Kiev (UA))

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Teplovoj rezonans v mul'tikomponentnykh sredakh

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X-ray and ion-beam investigations of epitaxial SiC/Si heterostructure

S75

Egorov, V.K.; Egorov, E.V. (IPTM RAN, Chernogolovka (RU)); Kukushkin, S.A.; Osipov, A.V. (IPMash RAN, Sankt-Peterburg (RU))

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Rentgenovskie i ionopuchkovye issledovaniya ehpitaksial'noj geterostruktury SiC/Si

p. 10

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Empirical regularities in ion charge-exchange cross sections for nuclei charges from 5 up to

10

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Novikov, N.V.; Teplova, Ya.A. (NIIYaF MGU, Moscow (RU))

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Ehmpiricheskie zakonomernosti v secheniyakh perezaryadki ionov s zaryadami yader ot 5 do 10

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Simulation of interaction of nanoclusters with thin metallic films**S75***Batgehrehl, B. (Ob"edinennyj Inst. Yadernykh Issledovanij, Dubna (XJ); Mongol'skij Univ. Nauki i Tekhnologij, Ulan-Bator (MN)); Didyk, A.Yu.; Nikonov, Eh.G.; Puzynin, I.V. (Ob"edinennyj Inst. Yadernykh Issledovanij, Dubna (XJ))***XLIV International Tulinov conference on physics of interactions of charged particles with crystals**

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Modelirovanie vzaimodejstviya nanoklasterov s tonkimi metallicheskimy plenkami

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Energy characteristics of atomic particle flow in carbon nanotube

S77

Lysova, I.V.; Mikhajlov, A.N. (FGBOU ChGPU im. I.Ya. Yakovleva, Kafedra OiTF, Cheboksary (RU))

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Ehnergeticheskie kharakteristiki atomarnogo potoka chastits v uglerodnoj nanotrubke

p. 13

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CARBON NANOTUBES; CHANNELING; CLUSTER BEAMS; ATOMIC CLUSTERS; OXYGEN; HYDROGEN; NITROGEN; L CODES; COMPUTERIZED SIMULATION; ENERGY LOSSES; THEORETICAL DATA

Study of effect of vacancies and atoms adsorbed on carbon nanotube walls on ion dechanneling by computerized simulation

S77

Aleksandrov, V.A.; Sabirov, A.S. (Chuvashskij Gosudarstvennyj Univ. imeni I.N. Ul'yanova, Cheboksary (RU))

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Issledovanie vliyaniya vakansij i adsorbirovannykh atomov na stenkakh UNT na dekanalirovanie ionov metodom komp'yuternogo modelirovaniya

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CARBON NANOTUBES; ATOMIC BEAMS; CHANNELING; VACANCIES; COMPUTERIZED SIMULATION; THEORETICAL DATA

Computerized estimation of hydrogen state inside nanotube

S77
Samsonov, A.M. (ChGPU im. I.Ya. Yakovleva, Cheboksary (RU))
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Komp'yuternaya otsenka sostoyanij vodoroda vnutri nanotrubki
p. 15
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Simulation of fast ion motion in nanotubes with chaotic curvatures

S77
Sabirov, A.S. (Chuvashskij Gosudarstvennyj Univ. imeni I.N. Ul'yanova, Cheboksary (RU)); Lysova, I.V. (Chuvashskij Gosudarstvennyj Pedagogicheskij Univ. imeni I.Ya. Yakovleva, Cheboksary (RU))
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Modelirovanie dvizheniya bystrykh ionov v nanotrubkakh s khaoticheskimi iskrivleniyami
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COMPUTERIZED SIMULATION; THEORETICAL DATA

Features of neutral particle channeling in carbon nanotubes at the expense of Lennard-Jones potential

S77
Maksyuta, N.V.; Vysotskij, V.I.; Efimenko, S.V. (Kievskij Natsional'nyj Univ. imeni Tarasa Shevchenko, Kiev (UA))

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Osobennosti kanalirovaniya nejtral'nykh chastits v uglerodnykh nanotrubkakh za schet potentsiala Lennarda-Dzhonsa

p. 17
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CHANNELING; CARBON NANOTUBES; ATOMIC BEAMS; MOLECULAR BEAMS; LENNARD-JONES POTENTIAL; HYDROGEN; TEMPERATURE DEPENDENCE; FOCUSING; COMPUTERIZED SIMULATION; DIAGRAMS; THEORETICAL DATA

Particle channeling in charged ionic crystals of CsCl-like crystals

S75
Maksyuta, N.V.; Vysotskij, V.I.; Efimenko, S.V. (Kievskij Natsional'nyj Univ. imeni Tarasa Shevchenko, Kiev (UA))

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Kanalirovanie chastits v zaryazhennykh ploskostyakh ionnykh kristallov tipa CsCl

p. 18
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Calculation method of potentials of charged planes and axes in ionic and ion-covalent crystals

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Maksyuta, N.V. (Kievskij Natsional'nyj Univ. imeni Tarasa Shevchenko, Kiev (UA))

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Metodika rascheta potentsialov zaryazhennykh ploskostej i osez v ionnykh i ionnokovalentnykh kristallakh

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Formation of correlation states and suppression of Coulomb barrier action for low-energy particles at microcrack formation in hydrogen-containing crystals

S75;S36

Vysotskij, V.I.; Vysotskij, M.V. (Kievskij Natsional'nyj Univ. imeni Tarasa Shevchenko, Kiev (UA))

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Formirovanie korrelirovannykh sostoyanij i podavlenie dejstviya kulonovskogo bar'era dlya chastits nizkoj ehnergii pri obrazovanii mikrotreshchin v vodorodsoderzhashchikh kristallakh

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On interaction of charged particle with solids (some theoretical issues)

S75

Uglov, V.V.; Kvasov, N.T.; Dorozhkin, N.N.; Safronov, I.V. (BGU, Minsk (BY))

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Spectra processing of neutron scattering on tungsten by means of wavelet technique

S75

Goroshko, M.A.; Stepanov, S.E. (KF FGBOU VPO #Left-Pointing Double Angle Quotation Mark#MGTU im.

N.Eh. Bauman#Right-Pointing Double Angle Quotation Mark#, Kaluga (RU))

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Obrabotka spektrov rasseyaniya nejtronov na vol'frame s ispol'zovaniem vejvletov

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Ion transmission through conic capillary at high energy

S75

Pokhil, G.P.; Cherdyn'tsev, V.V. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, MGU imeni M.V. Lomonosova, Moscow (RU))

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Prokhozhdenie ionov cherez konicheskij kapillyar pri vysokoj ehnergii ionov

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Study of control effect by 10 keV electrons by means of plain dielectric surfaces

S75

Vokhmyanina, K.A.; Zhukova, P.N.; Kubankin, A.S.; Kishchin, I.A.; Klyuev, A.S.; Nazhmudinov, R.M.; Olejnik, A.N. (Lab. Radiatsionnoj Fiziki, NIU #Left-Pointing Double Angle Quotation Mark#BelGU#Right-Pointing Double Angle Quotation Mark#, Belgorod (RU)); Pokhil, G.P. (NIIYaF im. D.V. Skobel'tsyna, MGU im. M.V. Lomonosova, Moscow (RU))

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1 fig.

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Lopatina, O.V.; Koroteev, Yu.M.; Svyatkin, L.A.; Chernov, I.P. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU))

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Krasnov, D.N.; Chernov, I.P. (Tomskij Politehnicheskij Univ., Tomsk (RU))

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Vas'ko, E.I.; Mel'nichuk, I.A. (Donetskij Natsional'nyj Univ., Donetsk (UA))

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Quantum mechanics description of particles and nuclei with spin 1/2 channeled in curved crystals

S75

Silenko, A. Ya. (Ob''edinennyj Inst. Yadernykh Issledovanij, Dubna (XJ); NIU Inst. Yadernykh Problem, Belorusskij Gosudarstvennyj Univ., Minsk (BY))

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Observation of pore formation and ion guiding effect in corundum, implanted by Ti ions (150 keV) and irradiated by Kr ions (90 MeV)

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Duvanov, S.M. (Inst. Prikladnoj Fiziki Natsional'noj Akademii Nauk Ukrainy, Sumy (UA)); Carstanjen, H.-D. (Max-Planck-Inst. for Intelligent Systems, Stuttgart (DE))

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Trofimenko, S.V. (NNTs KhFTI, Khar'kov (UA)); Shul'ga, N.F. (NNTs KhFTI, Khar'kov (UA)); KhNU im. V.N. Karazina, Khar'kov (UA)

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S75;S77

Muratova, E.N.; Spivak, Yu.M.; Moshnikov, V.A. (SPbGhTU, Sankt-Peterburg (RU)); Shemukhin, A.A.;

Chernykh, P.N.; Chernysh, V.S. (NIIYaF MGU, Moscow (RU))

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S75

Mikheev, N.N. (Filial Federal'nogo Gosudarstvennogo Byudzhetnogo Uchrezhdeniya Nauki Inst.

Kristallografii im. A.V. Shubnikova Rossijskoj Akademii Nauk Nauchno-Issledovatel'skij Tsentr #Left Double Quotation Mark#Kosmicheskoe Materialovedenie#Right Double Quotation Mark#, Kaluga (RU)); Ganchev,

A.S.; Kolesnik, A.S. (FGBOU VPO #Left-Pointing Double Angle Quotation Mark#Kaluzhskij Filial MGTU im. N.Eh. Bauman#Right-Pointing Double Angle Quotation Mark#, Kaluga (RU))

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S75

Belkova, Yu.A.; Novikov, N.V.; Teplova, Ya.A. (NIIYaF MGU, Moscow (RU))

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Izraileva, L.K.; Rumanov, Eh.N. (FGBUN Inst. Strukturnoj Makrokinetiki i Problem Materialovedeniya RAN, Chernogolovka (RU))

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Kovalev, G.V. (School of Mathematics, Univ. of Minnesota, Minneapolis (US))

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Simulation of deflection of relativistic 855 MeV electrons by bent silicon crystal S75

Koshcheev, V.P. (NIU MAI, Filial #Left-Pointing Double Angle Quotation Mark#Strela#Right-Pointing Double Angle Quotation Mark#, Zhukovskij Moskovskoj Obl. (RU)); Shtanov, Yu.N. (Surgutskij Inst. Nefti i Gaza (Filial) FGBOU VPO #Left-Pointing Double Angle Quotation Mark#TyumGNGU#Right-Pointing Double Angle Quotation Mark#, Surgut (RU)); Panina, T.A.; Morgun, D.A. (GBOU VPO #Left-Pointing Double Angle Quotation Mark#Surgutskij Gosudarstvennyj Univ. KhMAO-Yugry#Right-Pointing Double Angle Quotation Mark#, Surgut (RU))

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Simulation of bulk charge induced by cosmic ions in sensitive ranges of current integrated microcircuits

S46*Chumanov, V.Ya.; Kadenskij, A.G.; Chechenin, N.G. (NIIYaF imeni D.V. Skobel'tsyna, MGU imeni M.V. Lomonosova, Moscow (RU))***XLIV International Tulinov conference on physics of interactions of charged particles with crystals**

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Model computation of conductivity in quantum dot system

S75*Aleksandrov, V.A.; Sabirov, A.S. (Chuvashskij Gosudarstvennyj Univ. imeni I.N. Ul'yanova, Cheboksary (RU)); Filippov, G.M. (Cheboksarskij Politekhnikeskij Inst. (Filial) MGMU, Cheboksary (RU))*

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Scattering and parametric X-ray radiation of 255 MeV electrons at (220) channeling in diamond crystal

S75

*Korotchenko, K.B.; Pivovarov, Yu.L.; Tukhfatullin, T.A. (Tomsk Polytechnic Univ., Tomsk (RU));**Takabayashi, Y. (SAGA Light Source, Tosu (JP))***XLIV International Tulinov conference on physics of interactions of charged particles with crystals**

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Manifestations of quantum chaos in axial electron channeling

S75

Shul'ga, N.F. (ITF im. A.I. Akhiezer NNTs KhFTI, Khar'kov (UA)); Syshchenko, V.V.; Tarnovskij, A.I. (NIU #Left-Pointing Double Angle Quotation Mark#BelGU#Right-Pointing Double Angle Quotation Mark#, Belgorod (RU)); Isupov, A.Yu. (LVEh OIYaI, Dubna (XJ))

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Abdrashitov, S.V. (Tomskij Politekhnikeskij Univ., Tomsk (RU)); Tomskij Gosudarstvennyj Univ., Tomsk (RU)); Bogdanov, O.V.; Pivovarov, Yu.L.; Tukhfatullin, T.A. (Tomskij Politekhnikeskij Univ., Tomsk (RU)); Dabagov, S.B. (INFN-LNF, Frascati (IT)); Fizicheskij Inst. im. P.N. Lebedeva, Moscow (RU); NIYaU MIFI, Moscow (RU))

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Alekseev, V.I.; Eliseev, A.N.; Irribarra, Eh.F.; Sergienko, V.I. (Fizicheskij Inst. im. P.N. Lebedeva RAN, Moscow (RU)); Kishchin, I.A.; Nikulin, I.S. (Lab. Radiatsionnoj Fiziki, NIU BelGU, Belgorod (RU)); Kubankin, A.S.; Nazhmudinov, R.M. (Fizicheskij Inst. im. P.N. Lebedeva RAN, Moscow (RU); Lab. Radiatsionnoj Fiziki, NIU BelGU, Belgorod (RU))

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Coherent X-radiation of relativistic electron in three-layer structure

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Blazhevich, S.V.; Zagorodnyuk, R.A.; Noskov, A.V.; Omel'chenko, E.I. (Belgorodskij Gosudarstvennyj Natsional'nyj Issledovatel'skij Univ., Belgorod (RU))

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Olejnuk, A.N.; Kishchin, I.A.; Shchagin, A.V. (Lab. Radiatsionnoj Fiziki, NIU BelGU, Belgorod (RU)); Kubankin, A.S.; Nazhmudinov, R.M. (Lab. Radiatsionnoj Fiziki, NIU BelGU, Belgorod (RU)); Fizicheskij Inst. im. P.N. Lebedeva RAN, Moscow (RU))

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Blazhevich, S.V.; Zagorodnyuk, R.A.; Noskov, A.V. (Belgorodskij Gosudarstvennyj Natsional'nyj Issledovatel'skij Univ., Belgorod (RU))

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Blazhevich, S.V.; Gladkikh, Yu.P.; Kolosova, I.V.; Kos'kova, T.V.; Noskov, A.V. (Belgorodskij Gosudarstvennyj Natsional'nyj Issledovatel'skij Univ., Belgorod (RU))

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Kuchinskij, N.A. (Ob''edinennyj Inst. Yadernykh Issledovanij, Dubna (XJ)); Lobko, A.S.; Misevich, O.V. (Inst. Yadernykh Problem BGU, Minsk (BY))

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Baskov, V.A. (Fizicheskij Inst. im. P.N. Lebedeva RAN, Moscow (RU))

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Uglov, S.R.; Vukolov, A.V.; Sukhikh, L.G. (Tomskij Politekhnikeskij Univ., Tomsk (RU))

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Bogdanov, O.V.; Pivovarov, Yu.L.; Tukhfatullin, T.A. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij

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Bogdanov, O.V.; Pivovarov, Yu.L.; Fiks, E.I. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU))

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Pivovarov, Yu.L.; Fiks, E.I. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU))

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Resonances in reflection of relativistic electrons by atomic planes of crystals and their influence on band structure of channeled electrons

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Korotchenko, K.B.; Pivovarov, Yu.L.; Ehjkhorn, Yu.L. (Natsional'nyj Issledovatel'skij Tomskij

Politekhnikeskij Univ., Tomsk (RU))

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Rezonansy v otrazhenii relyativistskikh ehlektronov ot atomnykh ploskostej kristallov i ikh vliyanie na zonnuyu strukturu kanalirovanykh ehlektronov

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Radiation of angular momentum of relativistic electrons and positrons at planar channeling in crystals

S75

Abdarashitov, S.V. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU); Tomskij Gosudarstvennyj Univ., Tomsk (RU)); Bordovitsyn, V.A. (Tomskij Gosudarstvennyj Univ., Tomsk (RU)); Pivovarov, Yu.L. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU))

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Effect of gas mixture composition and conditions of ion bombardment on properties of carbon coatings

S75;S36

Podsvirov, O.A.; Karasev, P.A.; Shubina, E.N.; Mishin, M.V.; Poznyakov, A.V.; Titov, A.I.; Shakhmin, A.L. (Gosudarstvennyj Politekhnikeskij Univ., Sankt-Peterburg (RU)); Vinogradov, A.Ya. (Fiziko-Tekhnicheskij Inst. im. A.F. Ioffe, Sankt-Peterburg (RU)); Karasev, N.N. (Gosudarstvennyj Univ. Informatsionnykh Tekhnologij, Mekhaniki i Optiki, Sankt-Peterburg (RU))

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Effect of elastic perturbations of carbon nanotube wall on slow atomic particle channeling in it

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Stepanov, A.V. (Cheboksarskij Politekhnicheskij Inst. (Filial MGMU (MAMI)), Cheboksary (RU))

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Rainbow scattering of neutral atoms by crystal surface

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Avakyan, L.A.; Zhilina, T.I.; Malyshevskij, V.S.; Fomin, G.V. (Yuzhnyj Federal'nyj Univ., Rostov-na-Donu

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Sliding interaction of accelerated proton beams with curved dielectric surface

S75

Zhilyakov, L.A.; Kulikauskas, V.S. (NIIYaF MGU, Moscow (RU))

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Role of recoil atom energy in generation of secondary radiation defects in semiconductors under electron irradiation

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Kozlovskij, V.V.; Vasil'ev, A.Eh. (Sankt-Peterburgskij Gosudarstvennyj Politekhnikeskij Univ., Sankt-Peterburg (RU)); Lebedev, A.A. (Fiziko-Tekhnicheskij Inst. im. A.F. Ioffe RAN, Sankt-Peterburg (RU))

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Formation of epitaxial graphite layers and solid-phase recrystallization in diamond implanted by hydrogen and annealed at high P-T parameters

S75

Popov, V.P.; Gutakovskij, A.K.; Safronov, L.N. (IFP SO RAN, Novosibirsk (RU)); Kupriyanov, I.N.; Pal'yanov, Yu.N. (IGM SO RAN, Novosibirsk (RU)); Rubanov, C. (Univ. Mel'burna, Mel'burn (AU))

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Effect of high-dose ion irradiation on combination light scattering (CLS) by glass carbon S75

Andrianova, N.N.; Borisov, A.M. (NIIYaF MGU imeni M.V. Lomonosova, Moscow (RU); MATI-RGTU imeni K.Eh. Tsiolkovskogo, Moscow (RU)); Kazakov, V.A. (MATI-RGTU imeni K.Eh. Tsiolkovskogo, Moscow (RU)); GNTs - FGUP #Left-Pointing Double Angle Quotation Mark#Issledovatel'skij Tsentri imeni M.V. Keldysha#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Mashkova, E.S. (NIIYaF MGU imeni M.V. Lomonosova, Moscow (RU)); Rizakhanov, R.N.; Sigalaev, S.K. (GNTs - FGUP #Left-Pointing Double Angle Quotation Mark#Issledovatel'skij Tsentri imeni M.V. Keldysha#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Combination light scattering and photoluminescence of diamond after ion beam treatment at high temperature

S75

Andrianova, N.N.; Borisov, A.M. (NIIYaF MGU imeni M.V. Lomonosova, Moscow (RU); MATI-RGTU imeni K.Eh. Tsiolkovskogo, Moscow (RU)); Kazakov, V.A. (MATI-RGTU imeni K.Eh. Tsiolkovskogo, Moscow (RU)); GNTs - FGUP #Left-Pointing Double Angle Quotation Mark#Issledovatel'skij Tsentri imeni M.V. Keldysha#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Mashkova, E.S. (NIIYaF MGU

imeni M.V. Lomonosova, Moscow (RU)); Popov, V.P. (Inst. Fiziki Poluprovodnikov im. A.V. Rzhanova, Novosibirsk (RU)); Rizakhanov, R.N.; Sigalae, S.K. (GNTs - FGUP #Left-Pointing Double Angle Quotation Mark#Issledovatel'skij Tsentri imeni M.V. Keldysya#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Study of ion-synthesized oxide tungsten nanostructures by X-ray photoelectron spectroscopy

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Alov, N.V.; Lazov, M.A. (Khimicheskij Fakul'tet MGU imeni M.V. Lomonosova, Moscow (RU))

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Theory of formation of energy spectra of reflected charged particles

S75
Afanas'ev, V.P.; Kaplya, P.S. (Natsional'nyj Issledovatel'skij Univ. #Left-Pointing Double Angle Quotation Mark#MEhI#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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S75
Musin, A.I.; Samojlov, V.N. (Fizicheskij Fakul'tet MGU im. M.V. Lomonosova, Moscow (RU))

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Study of atom depth-distribution profiles for free nanofilm Si-Me-type systems

S75

Umirzakov, B.E.; Isakhanov, Z.A.; Ruzibaeva, M.K.; Mukhtarov, Z.Eh.; Khalmatov, A.S. (Inst. Ionno-Plazmennyykh i Lazernyykh Tekhnologij AN RUz, Tashkent (UZ))

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Study of elastic properties of carbyne by molecular dynamics method

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Mikhajlov, F.N. (Chuvashskij Gosudarstvennyj Pedagogicheskij Univ. im. I.Ya. Yakovleva, Cheboksary (RU))

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Ivanov, A.V. (Chuvashskij Gosudarstvennyj Pedagogicheskij Univ. im. I.Ya. Yakovleva, Cheboksary (RU))

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Complex analysis of defect accumulation under ion irradiation of silicon

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Tetel'baum, D.I. (Nizhegorodskij Gosudarstvennyj Univ. im. N.I. Lobachevskogo, Nizhnij Novgorod (RU));

Okulich, V.I. (Akademiya pri Prezidente Rossijskoj Federatsii RANKhiGS, Nizhnij Novgorod (RU))

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Ermakov, Yu.A.; Shemukhin, A.A. (NIIYaF MGU im. M.V. Lomonosova, Moscow (RU)); Ieshkin, A.E.; Chernysh, V.S. (Fizicheskij Fakul'tet MGU im. M.V. Lomonosova, Moscow (RU))

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Andrianova, N.N.; Borisov, A.M. (NIIYaF MGU imeni M.V. Lomonosova, Moscow (RU)); MATI-RGTU imeni K.Eh. Tsiolkovskogo, Moscow (RU)); Bejlina, N.Yu.; Chernenko, D.N.; Chernenko, N.M. (NIIgrafit, Moscow

(RU)); Mashkova, E.S. (NIIYaF MGU imeni M.V. Lomonosova, Moscow (RU)); Pitirimova, E.A. (Fizicheskij Fakul'tet NNGU imeni N.I. Lobachevskogo, Nizhnij Novgorod (RU))

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Effect of Arⁿ⁺ ion implantation on silicon film structure

S75

Pitirimova, E.A. (Nizhegorodskij Gosudarstvennyj Univ. im. N.I. Lobachevskogo, Nizhnij Novgorod (RU));

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Tolmachev, A.I. (Rossijskij Novyj Univ., Moscow (RU))

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Vnuchenko, A.A.; Kramchenkov, A.B.; Bugaj, A.N. (Inst. Prikladnoj Fiziki NAN Ukrainy, Sumy (UA))

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Balakshin, Yu.V.; Shemukhin, A.A.; Nazarov, A.V. (NIIYaF imeni D.V. Skobel'tsyna, MGU imeni M.V. Lomonosova, Moscow (RU)); Chernysh, V.S. (NIIYaF imeni D.V. Skobel'tsyna, MGU imeni M.V. Lomonosova, Moscow (RU)); Fizicheskij Fakul'tet MGU imeni M.V. Lomonosova, Moscow (RU))

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Didenko, P.I. (Gosudarstvennoe Uchrezhdenie #Left-Pointing Double Angle Quotation Mark#Inst. Geokhimii Okruzhayushchej Sredy NAN Ukrainy#Right-Pointing Double Angle Quotation Mark#, Kiev (UA))

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Shirokorad, D.V.; Kornich, G.V. (Zaporozhskij Natsional'nyj Tekhnicheskij Univ., Zaporozh'e (UA))
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Structure and composition of carbosital surface after exposure to oxygen plasma

S37;S75
Chernik, V.N. (NIIYaF MGU, Moscow (RU)); Bondarenko, G.G.; Gajdar, A.I.; Petrov, V.S. (FGBNU #Left-Pointing Double Angle Quotation Mark#NII PMT#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))
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Afanas'ev, V.P.; Golovina, O.Yu.; Gryazev, A.S.; Kaplya, P.S. (Natsional'nyj Issledovatel'skij Univ. #Left-Pointing Double Angle Quotation Mark#MEI#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Simulation of vacuum arc cleaning of metallic surface**S36***Arustamov, V.N.; Ashurov, Kh.B.; Kadyrov, Kh.Kh.; Khudajkulov, I.Kh. (Inst. Ionno-Plazmennyykh i Lazernyykh Tekhnologij AN RUz, Tashkent (UZ)), e-mail: arustamov@aie.uz***XLIV International Tulinov conference on physics of interactions of charged particles with crystals**
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Parameters of white layer shaped during vacuu marc treatment of steel surface by cathode spots

S36

Arustamov, V.N.; Ashurov, Kh.B.; Kadyrov, Kh.Kh.; Khudajkulov, I.Kh. (Inst. Ionno-Plazmennykh i Lazernykh Tekhnologij AN RUz, Tashkent (UZ))

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Parametry #Left-Pointing Double Angle Quotation Mark#belogo sloya#Right-Pointing Double Angle Quotation Mark#, formiruemogo pri vakuumno-dugovoj obrabotke stal'noj poverkhnosti katodnymi pyatnami

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Mechanisms of decay of excited clusters sputtering by ion bombardment: dynamic chaos and RRK theory

S75

Oksengendler, B.L.; Maksimov, S.E.; Turaev, N.Yu. (Inst. Ionno-Plazmennykh i Lazernykh Tekhnologij AN RUz, Tashkent (UZ))

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Ionization processes of ionization in cathode spot of vacuum arc

S75

Arustamov, V.N.; Ashurov, Kh.B.; Kadyrov, Kh.Kh.; Khudajkulov, I.Kh. (Inst. Ionno-Plazmennykh i Lazernykh Tekhnologij AN RUz, Tashkent (UZ))

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Angular and energy distribution of carbon atoms scattered by graphene at sliding bombardment

S75

Dzhurakhalov, A.A. (Univ. of Antwerp, Antwerp (BE)); Stel'makh, V.G.; Yadgarov, I.D. (Inst. Ionno-Plazmennykh i Lazernykh Tekhnologij AN RUz, Tashkent (UZ))

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Monomolecular decay and mechanism of cluster Si_n⁺ ion shaping

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Dzhemilev, N.Kh.; Kovalenko, S.F.; Maksimov, S.E.; Tukfatullin, O.F.; Khozhiev, Sh.T. (Inst. Ionno-Plazmennyykh i Lazernyykh Tekhnologij AN RUz, Tashkent (UZ))

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Nurmatov, N.A.; Ehrgashov, E.S. (Tashkentskij Gosudarstvennyj Tekhnicheskij Univ. im. A.R. Beruni,

Tashkent (UZ)

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SIMS of gallium arsenide by means of multicharged bombarding ions

S75

Morozov, S.N. (Inst. Ionno-Plazmennyykh i Lazernyykh Tekhnologij AN RUz, Tashkent (UZ)), e-mail:

morozov@ai.e.uz

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Comparative study of EELS spectra of electrons reflected and transmitted through thin films of metals

S75

Isakhanov, Z.A.; Kadyrov, T.; Ruzibaeva, M.K.; Isakhanov, U.Z. (Inst. Ionno-Plazmennykh i Lazernykh Tekhnologij AN RUz, Tashkent (UZ))

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Study of composition of noncontrolled impurities, their chemical states and distribution profiles on semiconductor-metal interface

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Abduvaitov, A.A. (Tashkentskij Gosudarstvennyj Tekhnicheskij Univ., Tashkent (UZ))

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Effect of electron and ion bombardment on microrelief of CaF₂ and CoSi₂ surfaces **S75**

Normuradov, M.T. (Karshinskij Gosudarstvennyj Univ., Karshi (UZ)); Umirzakov, B.E.; Tashmukhamedova, D.A.; Donaev, S.B. (Tashkentskij Gosudarstvennyj Tekhnicheskij Univ., Tashkent (UZ))

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Energy spectra of nanofilm BaSi₂, CoSi₂ and SiO₂ structures shaped on Si surface by ion implantation **S77**

Ehrgashov, E.S.; Rabbimov, Eh.; Tashatov, A.K.; Umirzakov, B.E. (Tashkentskij Gosudarstvennyj Tekhnicheskij Univ., Tashkent (UZ))

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The dissolving of gold nanoparticles in silicate glass under the action of electron beam irradiation

S77

Podsvirov, O.A.; Prosnikov, M.A. (Saint-Petersburg State Polytech. Univ., Saint-Petersburg (RU)); Brunov, V.A.; Sidorov, A.I. (Saint-Petersburg National Research Univ. of Information Technologies, Mechanics and Optics, Saint-Petersburg (RU))

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Distribution of hydrogen, deuterium and nitrogen in assembly containing three Ta#Divides#(CD_2)_n#Divides#Ta foils after exposure to pulsed nitrogen high-temperature plasma

S75

Didyk, A.Yu. (OIYaI, Lab. imeni G.N. Flerova, Dubna (XJ)); Vishnevskij, R. (Narodove Centrum Badan Jadrowych, Otwock-#Latin Capital Letter S With Acute#wierk (PL)); Zatekin, V.V.; Kalikauskas, V.S. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna Moskovskogo Gosudarstvennogo Univ. imeni M.V. Lomonosova, Moscow (RU)); Serushkin, N.V. (MGU imeni N.Eh. Bauman, Moscow (RU))

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Raspredelenie vodoroda, dejteriya i azota v sborke iz trekh Ta#Divides#(CD_2)_n#Divides#Ta fol'g posle vozdejstviya impul'snoj azotnoj vysokotemperaturnoj plazmy

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Location of implanted deuterium ions in zirconium and palladium under high-dose implantation

S75

Didyk, A.Yu. (OIYaI, Lab. imeni G.N. Flerova, Dubna (XJ)); Vishnevskij, R. (Narodove Centrum Badan Jadrowych, Otwock-#Latin Capital Letter S With Acute#wierk (PL)); Kalikauskas, V.S. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna Moskovskogo Gosudarstvennogo Univ. imeni M.V. Lomonosova, Moscow (RU))

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Interaction of hydrogen with zirconium alloys modified by pulsed beams

S36

Chernov, I.P.; Berezneeva, E.V.; Kudiyarov, V.N.; Lider, A.M.; Pushilina, N.S.; Cherdantsev, Yu.P. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU)); Ivanova, S.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. #Left-Pointing Double Angle Quotation Mark#MIFI#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Properties of titanium alloy surface modified by pulsed ion beam

S36

Beloglazova, P.A.; Berezneeva, E.V.; Pushilina, N.S.; Remnev, G.E.; Chernov, I.P. (NITPU, Tomsk (RU))

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Dispersion of thin metallic film on dielectric substrate under exposure to power ion beam S75

Kovivchak, V.S.; Panova, T.V.; Burlakov, R.B.; Knyazev, E.V. (Omskij Gosudarstvennyj Univ. im. F.M. Dostoevskogo, Omsk (RU))

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Action of power ion beam on polymeric films deposited on dielectric substrates S36

Kovivchak, V.S. (Omskij Gosudarstvennyj Univ. im. F.M. Dostoevskogo, Omsk (RU); Omskij Nauchnyj Tsentr SO RAN, Omsk (RU)); Kryazhev, Yu.G.; Knyazev, E.V. (Omskij Nauchnyj Tsentr SO RAN, Omsk (RU)); Martynenko, E.S. (Inst. Problem Pererabotki Uglevodorodov SO RAN, Omsk (RU))

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Phase and elemental composition of Zr/solid solution system after exposure to compression plasma flows**S36***Kuleshov, A.K.; Krutilina, E.A.; Uglov, V.V. (Belorusskij Gosudarstvennyj Univ., Minsk (BY)); Astashinskij, V.M.; Kuz'mitskij, A.M. (Inst. Teplo- i Massoobmena im. A.V. Lykova, Minsk (BY))***XLIV International Tulinov conference on physics of interactions of charged particles with crystals**

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EXPERIMENTAL DATA

Structure, phase and elemental composition of surface copper layer doped by chromium atoms under exposure to compression plasma flows

S36

Cherenda, N.N.; Uglov, V.V. (Belorusskij Gosudarstvennyj Univ., Minsk (BY)); Laskovnev, A.P.; Basalaj, A.V. (GNU #Left-Pointing Double Angle Quotation Mark#Fiziko-Tekhnicheskij Inst. NAN Belarusi#Right-Pointing Double Angle Quotation Mark#, Minsk (BY)); Astashinskij, V.M.; Kuz'mitskij, A.M. (Inst. Teplo- i Massoobmena im. A.V. Lykova NAN Belarusi, Minsk (BY))

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Struktura, fazovyy i ehlementnyj sostav poverkhnostnogo sloya medi, legirovannogo atomami khroma pod dejstviem kompressionnykh plazmennykh potokov

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Application of nuclear microanalysis for study of deuterium diffusion in proton-conducting oxides

S36

Vykhodets, V.B.; Kurennykh, T.E.; Obukhov, S.I. (IFM UrO RAN, Ekaterinburg (RU)); Nefedova, O.A. (IMASh UrO RAN, Ekaterinburg (RU)); Gorelov, V.P.; Balakireva, V.B. (IVTEh UrO RAN, Ekaterinburg (RU)); Vykhodets, E.V. (UrFU, Ekaterinburg (RU))

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Study of stoichiometry of Al₂O₃ nanopowders enriched by ¹⁸O by means of nuclear microanalysis

S77

Vykhodets, V.B.; Kurennykh, T.E.; Obukhov, S.I. (IFM UrO RAN, Ekaterinburg (RU)); Samatov, O.M.; Beketov, I.V.; Medvedev, A.I. (IEhF UrO RAN, Ekaterinburg (RU))

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S36

Tashlykova-Bushkevich, I.I. (Belorusskij GosUniv. Informatiki i Radioelektroniki, Minsk (BY)); Ryabukhin, O.V. (Ural'skij Federal'nyj Univ., Ekaterinburg (RU)); Kulikauskas, V.S. (NIIYaF MGU, Moscow (RU)); Horikawa, K. (Univ. Osaki, Osaka (JP)); Shepelevich, V.G. (Belorusskij GosUniv., Minsk (BY))

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Layer-by-layer distribution of In in aluminium alloys obtained by high-speed crystallization from melt

S36

Tashlykova-Bushkevich, I.I. (BGUIR, Minsk (BY)); Yakovenko, Yu.S.; Barajshuk, S.M.; Tashlykov, I.S. (BGPU im. M. Tanka, Minsk (BY)); Kulikauskas, V.S. (NIIYaF MGU, Moscow (RU)); Shepelevich, V.G. (BGU, Minsk (BY))

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Effect of J_i/J_a parameter on coating thickness in Cu/Al-structure obtained by dynamic atomic mixing

S36

Tashlykov, I.S. (Belorusskij Gosudarstvennyj Pedagogicheskij Univ., Minsk (BY)); Tul'ev, V.V. (Belorusskij Gosudarstvennyj Tekhnologicheskij Univ., Minsk (RU))

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Elemental composition of surface of back contact of solar elements deposited on glass substrate by DFIIA method

S36

Mikhalkovich, O.M.; Barajshuk, S.M.; Turovets, A.I.; Tashlykov, I.S. (BGPU, Minsk (BY)); Bobrovich, O.G. (BGTU, Minsk (BY)); Kulikauskas, V.S. (NIIYaF MGU, Moscow (RU))

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Si structure after "⁶⁴Zn⁺" ion implantation at high temperature

S75

Privezentsev, V.V. (FTIAN RAN, Moscow (RU)); Kulikauskas, V.S.; Zatekin, V.V. (NIIYaF, MGU, Moscow (RU)); Tabachkova, N.Yu. (NITU MISiS, Moscow (RU))

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Crystallization of silicon films implanted by high-dose H⁺ ions under hydrostatic compression conditions

S75

Tyschenko, I.E. (Inst. Fiziki Poluprovodnikov im. A.V. Rzhanova SO RAN, Novosibirsk (RU))

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Interaction of hydrogen with dislocations and grain boundaries tungsten

S36

Grigor'ev, P.Yu.; Bakaev, A.V. (Sankt-Peterburgskij Gosudarstvennyj Politehnicheskij Univ., Sankt-Peterburg (RU)); Bel'gijskij Tsentri Yadernykh Issledovanij SCK-CEN, Mol (BE)); Terent'ev, D.A. (Bel'gijskij Tsentri Yadernykh Issledovanij SCK-CEN, Mol (BE)); Zhurkin, E.E. (Sankt-Peterburgskij Gosudarstvennyj Politehnicheskij Univ., Sankt-Peterburg (RU))

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Vzaimodejstvie vodoroda s dislokatsiyami i granitsami zeren v vol'frame

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Ion-induced changes of structure and phase composition of nanocrystalline TiZrSiN coatings shaped by magnetron sputtering

S36

Uglov, V.V.; Zlotskij, S.V.; Solodukhin, I.A.; Leshkevich, S.S. (Belorusskij Gosudarstvennyj Univ., Minsk (BY)); Abadi, G. (Inst. F#Right Single Quotation Mark#, Univ. Puat'e, Puat'e (FR))

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Study of composition of catalytic layers shaped by ion-assisted deposition of metals on carbon acceptor

S36

Poplavskij, V.V.; Dorozhko, A.V. (Belorusskij Gosudarstvennyj Tekhnologicheskij Univ., Minsk (BY))

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Study of defect generation and recrystallization in silicon-on-sapphire films under ion irradiation

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Shemukhin, A.A.; Chernysh, V.S.; Balakshin, Yu.V.; Nazarov, A.V. (NIIYaF MGU, Moscow (RU))

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Elemental composition of CuInSe₂ and Cu(In,Ga)Se₂ surfaces deposited on substrates from different materials

S36;S75

Sil'vanovich, D.A.; Tashlykov, I.S. (BGPU im. M. Tanka, Minsk (BY)); Kulikauskas, V.S. (NIIYaF MGU, Moscow (RU)); Gremenok, V.F. (NPTs NANB po Materialovedeniyu, Minsk (BY))

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Features of state of protective oxide films on ion-modified surface of zirconium tubes

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Valikov, R.A.; Volkov, N.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI (NIYaU MIFI), Moscow (RU))

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1 fig.

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Accumulation of hydrogen isotopes during exposition of irradiated tungsten in high plasma flows

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Khripunov, B.I.; Gureev, V.M.; Danelyan, L.S. (NITs #Left-Pointing Double Angle Quotation Mark#Kurchatovskij Inst.#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)) (and others)

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Features of formation of surface relief of compound alloys under exposure to power ion

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Kovivchak, V.S.; Panova, T.V.; Mikhajlov, K.A. (Omskij Gosudarstvennyj Univ. im. F.M. Dostoevskogo, Omsk (RU))

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Characteristic X-ray spectrometer with proton excitation**S46**

Komarov, F.F.; Kamyshan, A.S.; Pil'ko, V.V.; Pil'ko, V.V. ml.; Grishin, P.A. (NIU #Left Double Quotation Mark#Inst. Prikladnykh Fizicheskikh Problem im. A.N. Sevchenko#Right Double Quotation Mark# BGU, Minsk (BY))

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S36

Borisov, A.M. (MATI-RGTU imeni K.Eh. Tsiolkovskogo, Moscow (RU)); Korshunov, A.B. (NII Mekhaniki MGU, Moscow (RU)); Romanovskij, E.A.; Tkachenko, N.V.; Vostrikov, V.G. (NIIYaF MGU, Moscow (RU))
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S36

Zyryanov, S.S.; Kruzhalov, A.V.; Neshov, F.G.; Ryabukhin, O.V. (Ural'skij Federal'nyj Univ., Fiziko-Tekhnologicheskij Inst., Ekaterinburg (RU))

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S37
Bakieva, O.R.; Nemtsova, O.M.; Surnin, D.V. (Fiziko-Tekhnicheskij Inst. UrO RAN, Izhevsk (RU)); Bakiev, A.V. (Inst. Komp'yuternykh Issledovanij, Izhevsk (RU))

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Spatial profiles of aggregate color centers in LiF crystals irradiated by heavy high-energy ions

S75
Kirilkin, N.S.; Strukova, T.S.; Skuratov, V.A. (Ob'edinennyj Inst. Yadernykh Issledovanij, Dubna (XJ))
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Effect of thermal annealing on properties of C/Ni heterostructure

S75

Khamdokhov, A.Z.; Teshev, R.Sh.; Khamdokhov, Z.M. (KBGU, Nal'chik (RU)); Kulikauskas, V.C.; Chernykh, P.N. (NII Yadernoj Fiziki imeni D.V. Skobel'tsyna, MGU imeni M.V. Lomonosova, Moscow (RU))

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Ion beam techniques of the accelerating complex AN-2500

S75

Chernykh, P.N.; Shemukhin, A.A.; Balakshin, Yu.V.; Nazarov, A.V. (NIIYaF MGU, Moscow (RU))

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Ion beam techniques of the accelerating complex HVEE-500

S75

Shemukhin, A.A.; Chernysh, V.S.; Chernykh, P.N.; Balakshin, Yu.V.; Nazarov, A.V. (NIIYaF MGU, Moscow (RU))

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Study of structure of ceramic polymeric functional coatings by means of nuclear backscattering spectrometry

S36

Anikin, V.A.; Zheltukhin, R.V.; Krit, B.L. (MATI #En Dash# Rossijskij Gosudarstvennyj Tekhnologicheskij Univ. imeni K.Eh. Tsiolkovskogo, Moscow (RU)); Borisov, A.M.; Tkachenko, N.V. (MATI #En Dash# Rossijskij Gosudarstvennyj Tekhnologicheskij Univ. imeni K.Eh. Tsiolkovskogo, Moscow (RU)); NIIYaF MGU im. M.V. Lomonosova, Moscow (RU)); Vostrikov, V.G.; Romanovskij, E.A. (NIIYaF MGU im. M.V. Lomonosova, Moscow (RU)); Ryzhikov, I.A. (Inst. Teoreticheskoy i Prikladnoj Ehlektrodinamiki, Moscow (RU))

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Issledovanie struktury keramopolimernykh funktsional'nykh pokrytij s ispol'zovaniem spektrometrii yadernogo obratnogo rasseyaniya

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Study of nanostructure coating obtained at plasma spraying by supersonic jet with evacuation

S36

Borisov, A.M.; Tkachenko, N.V. (NIIYaF MGU, Moscow (RU)); MATI-RGTU imeni K.Eh. Tsiolkovskogo, Moscow (RU)); Vostrikov, V.G.; Romanovskij, E.A. (NIIYaF MGU, Moscow (RU)); Polyanskij, M.N.; Savushkina, S.V. (GNTs FGUP #Left-Pointing Double Angle Quotation Mark#Tsentr Keldysha#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Optical properties and structure of ZnO monocrystals irradiated by Xe ions with E=1,2 MeV/nucleon

S36

Strukova, T.S.; Skuratov, V.A. (Ob'edinennyj Inst. Yadernykh Issledovanij, Lab. Yadernykh Reaktsij imeni G.N. Flerova, Dubna (XJ)); Vuuren, A.J. van; Neethling, J.H. (Centre for HRTEM, Nelson Mandela Metropolitan Univ., Port Elizabeth (ZA))

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Radiation hardening of DHO steels irradiated by heavy ions with fission fragment energies

S36

Korneeva, K.; Sokhatskij, A.S.; Skuratov, V.A. (LYaR im. G.N. Flerova, OIYaI, Dubna (XJ)); O#Right Single Quotation Mark#Connel, J.; Neethling, J. (CHRTEM, NMMU, Port Elizabeth (ZA)); Nikitina, A.A. (FGUP VNIINM im. A.A. Bochvara, Moscow (RU)); Golovin, Yu.I.; Korenkov, V.V. (TGU im. G.R. Derzhavina,

Tambov (RU)

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Effect of radiation and thermal action on migration of iron atoms implanted in Si and SiO₂

S75

Shilobreeva, S.N.; Bronskij, V.S. (GEOKhI im. V.I. Vernadskogo RAN, Moscow (RU)); Zinenko, V.I.; Agafonov, Yu.A. (IPTMiOM RAN, Chernogolovka (RU)); Sarajkin, V.V. (FGUP #Left-Pointing Double Angle Quotation Mark#NIIFP im. F.V. Lukina#Right-Pointing Double Angle Quotation Mark#, Zelenograd (RU))

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S36
Enisherlova, K.L.; Korneev, V.I. (OAO #Left-Pointing Double Angle Quotation Mark#NPP #Left-Pointing Double Angle Quotation Mark#Pul'sar#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Kulikauskas, V.S. (NIIYaF im. D.V. Skobel'tsyna, Moscow (RU)); Sejdman, L.A. (IFYaEh NIYaU (MIFI), Moscow (RU)); Pishchagin, V.V.; Konovalov, A.M. (OAO GPZ #Left-Pointing Double Angle Quotation Mark#Pul'sar#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Kabyshev, A.V.; Konusov, F.V.; Remnev, G.E.; Pavlov, S.K. (NITPU, Tomsk (RU))

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Kristya, V.I.; Je Naing Tun (Kaluzhskij Filial MGTU im. N.Eh. Baumana, Kaluga (RU))

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S36

Timchenko, N.A.; Galimov, R.M.; Kuznetsov, S.I. (Natsional'nyj Issledovatel'skij Tomskij Politekhnicheskij Univ., Tomsk (RU))

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Gil'mutdinov, F.Z.; Bakieva, O.R.; Kolotov, A.A.; Mukhgalin, V.V.; Surnin, D.V. (Fiziko-Tekhnicheskij Inst. UrO RAN, Izhevsk (RU)); Kobziev, V.F. (FBGOU VO Udmurtskij Gosudarstvennyj Univ., Izhevsk (RU))

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Markidonov, A.V. (Filial Kuzbasskogo Gosudarstvennogo Tekhnicheskogo Univ. v g. Novokuznetske, Novokuznetsk (RU)); Starostenkov, M.D. (Altajskij Gosudarstvennyj Tekhnicheskij Univ., Barnaul (RU))

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Umirzakov, B.E.; Nimatov, S.Zh.; Donaev, S.B. (Tashkentskij Gosudarstvennyj Tekhnicheskij Univ. im. A.R. Beruni, Tashkent (UZ))

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Boltaev, Kh.Kh.; Muradkabilov, D.M.; Tashmukhamedova, D.A.; Tashatov, A.K. (Tashkentskij Gosudarstvennyj Tekhnicheskij Univ., Tashkent (UZ))

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Bakaev, A.V.; Grigor'ev, P.Yu. (Sankt-Peterburgskij Gosudarstvennyj Politekhnikeskij Univ., Sankt-Peterburg (RU)); Bel'gijskij Tsentri Yadernykh Issledovanij SCK-CEN, Mol (BE)); Terent'ev, D.A. (Bel'gijskij Tsentri Yadernykh Issledovanij SCK-CEN, Mol (BE)); Zhurkin, E.E. (Sankt-Peterburgskij Gosudarstvennyj Politekhnikeskij Univ., Sankt-Peterburg (RU))

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Vershinin, G.A.; Volkov, V.A.; Gering, G.I. (Omskij Gosudarstvennyj Univ. im. F.M. Dostoevskogo, Omsk (RU))

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*Chechenin, N.G. (NIIYaF imeni D.V. Skobel'tsyna, MGU imeni M.V. Lomonosova, Moscow (RU));
Kadmenskij, A.G. (FGUP TsNIImash, Korolev, Moskovskaya Obl. (RU)); Stepanenkova, L.P. (MIEhM NIU
VShEh, Moscow (RU))*

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*Korshunov, F.P.; Lazar', A.P.; Lastovskij, S.B. (NPTs NAN Belarusi po Materialovedeniyu, Minsk (BY));
Kablambaev, B.A.; Oreshkin, V.I. (Inst. Sil'notochnoj Ehlektroniki SO RAN, Tomsk (RU))*

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Andreev, D.V.; Stolyarov, A.A.; Dmitriev, V.G. (MGTU im. N.Eh. Baumana, Kaluzhskij Filial, Kaluga (RU)); Bondarenko, G.G. (Moskovskij Gosudarstvennyj Inst. Ehlektroniki i Matematiki NIU #Left-Pointing Double Angle Quotation Mark#Vysshaya Shkola Ehkonomiki#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Measurement of absorbed dose of ionizing radiations by means of injection-modified MIS-transistors

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Andreev, V.V.; Solov'ev, I.V.; Akhmelkin, D.M.; Romanov, A.V. (MGTU im. N.Eh. Baumana, Kaluzhskij Filial, Kaluga (RU)); Bondarenko, G.G. (Moskovskij Gosudarstvennyj Inst. Ehlektroniki i Matematiki NIU #Left-Pointing Double Angle Quotation Mark#Vysshaya Shkola Ehkonomiki#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

XLIV International Tulinov conference on physics of interactions of charged particles with crystals

Moscow (RU)

27-29 May 2014

XLIV mezhdunarodnaya Tulinovskaya konferentsiya po fizike vzaimodejstviya zaryazhennykh chastits s kristallami

Izmerenie pogloshchennoj dozy ioniziruyushchikh izluchenij s ispol'zovaniem inzhektionsno-modifitsirovannykh MDP-tranzistorov

p. 158

(RU)

1 ref.

Panasyuk, M.I. (ed.)

Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU)

Summaries of reports of XLIV International Tulinov conference on physics of interactions of charged particles with crystals

Tezisy dokladov XLIV mezhdunarodnoj Tulinovskoj konferentsii po fizike vzaimodejstviya zaryazhennykh chastits s kristallami

INIS-RU--605

Moscow (RU)

Izd-vo MGU

2014

202 p.

MIS TRANSISTORS; ABSORBED RADIATION DOSES; ALPHA PARTICLES; SILICON OXIDES; SENSITIVITY; RADIATION METROLOGY; EXPERIMENTAL DATA

Study of attenuation coefficients of photon and neutron beams at transmission through titanium hydride TiH₁,₈**S61***Pavlenko, V.I.; Edamenko, O.D.; Cherkashina, N.I.; Kuprieva, O.V. (Belgorodskij Gosudarstvennyj Tekhnologicheskij Univ. im. V.G. Shukhova, Belgorod (RU)); Noskov, A.V. (Belgorodskij Gosudarstvennyj Natsional'nyj Issledovatel'skij Univ., Belgorod (RU))***XLIV International Tulinov conference on physics of interactions of charged particles with crystals**

Moscow (RU)

27-29 May 2014

XLIV mezhdunarodnaya Tulinovskaya konferentsiya po fizike vzaimodejstviya zaryazhennykh chastits s kristallami

Izuchenie koehffitsientov oslableniya fotonnogo i nejtronnogo puchka pri prokhozhenii cherez gidrid titana TiH₁,₈

p. 159

(RU)

1 ref.

Panasyuk, M.I. (ed.)

Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU)

Summaries of reports of XLIV International Tulinov conference on physics of interactions of charged particles with crystals

Tezisy dokladov XLIV mezhdunarodnoj Tulinovskoj konferentsii po fizike vzaimodejstviya zaryazhennykh chastits s kristallami

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Moscow (RU)

Izd-vo MGU

2014

202 p.

TITANIUM HYDRIDES; SHIELDS; RADIATION PROTECTION; SHIELDING MATERIALS;
NEUTRON FLUX; GAMMA RADIATION; TRANSMISSION; ATTENUATION; THEORETICAL DATA

New classes of exact solutions of unsteady Navier-Stokes equations

S97

Polyanin, A.D. (Inst. Problem Mekhaniki imeni A.Yu. Ishlinskogo RAN, Moscow (RU); Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU); Moskovskij Gosudarstvennyj Tekhnicheskij Univ. imeni N.Eh. Baumana, Moscow (RU)); Zhurov, A.I. (Cardiff Univ., Cardiff (GB)), E-mail: polyanin@ipmnet.ru, zhurovai@cardiff.ac.uk

Novye klassy tochnykh reshenij nestatsionarnykh uravnenij Nav'e-Stoksa

p. 191-198

(RU)

47 refs.

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(2016)

v. 5(3)

MATHEMATICS; MATHEMATICAL MODELS; MATHEMATICAL SOLUTIONS; EXACT SOLUTIONS; EQUATIONS; NAVIER-STOKES EQUATIONS; DIFFERENTIAL EQUATIONS

The unsteady Navier-Stokes equations with two space variables have been studied in the paper. The results obtained can be used to solve certain model problems and make it possible to effectively estimate the domain of applicability and accuracy of numerical, asymptotic, and approximate analytical methods in hydrodynamics

В работе рассматриваются нестационарные уравнения Навье-Стокса с двумя пространственными переменными. Полученные результаты могут использоваться для решения модельных задач и позволяют эффективно оценивать область применимости и точность численных, асимптотических и приближенных аналитических методов гидродинамики

Exact solutions of some nonlinear partial differential equations with delay and systems of such equations

S97

Sorokin, V.G. (Moskovskij Gosudarstvennyj Tekhnicheskij Univ. imeni N.Eh. Baumana, Moscow (RU); Inst. Problem Mekhaniki imeni A.Yu. Ishlinskogo RAN, Moscow (RU)), E-mail: vsesor@gmail.com

Tochnye resheniya nekotorykh nelinejnykh uravnenij i sistem uravnenij v chastnykh proizvodnykh s zapazdyvaniem

p. 199-219

(RU)

71 refs.

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(2016)

v. 5(3)

MATHEMATICS; MATHEMATICAL SOLUTIONS; DIFFERENTIAL EQUATIONS; EXACT SOLUTIONS; EQUATIONS; PARTIAL DIFFERENTIAL EQUATIONS

Nonlinear partial differential equations of parabolic and hyperbolic types with delay have been considered in the paper. A number of exact traveling-wave solutions and some solutions of other kinds have been also described

В работе рассматриваются нелинейные уравнения в частных производных с запаздыванием параболического и гиперболического типов. Описаны точные решения типа бегущей волны, а также некоторые другие решения

Application of power series to the solution of the boundary value problem for a second order nonlinear differential equation

S97

Semenova, V.N. (Dimitrovgradskij Inzhenerno-Tekhnologicheskij Inst. NIYaU MIFI, Moscow (RU)), E-mail: VNSemenova@mephi.ru

Prilozhenie stepennykh ryadov k resheniyu odnoj kraevoy zadachi dlya nelinejnogo differentsial'nogo uravneniya vtorogo poryadka

p. 220-227

(RU)

7 refs.

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v. 5(3)

MATHEMATICS; MATHEMATICAL MODELS; MATHEMATICAL SOLUTIONS; EXACT SOLUTIONS; DIFFERENTIAL EQUATIONS; CALCULATION METHODS

A boundary value problem for a nonlinear second order differential equation has been considered. A numerical method has been proposed to solve this problem using power series. Results of numerical experiments have been presented in the paper

В работе рассмотрена краевая задача для нелинейного дифференциального уравнения второго порядка; предлагается метод построения численного решения поставленной задачи с помощью степенных рядов; приводятся результаты численных экспериментов

Inhomogeneous stationary regimes in the problem of electrical heating

S97

Kashchenko, S.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: kasch@uniyar.ac.ru

Issledovanie neodnorodnykh statsionarnykh rezhimov v odnoj zadache ehlektronagreva

p. 228-232

(RU)

2 refs.

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v. 5(3)

MATHEMATICAL MODELS; MATHEMATICAL SOLUTIONS; BOUNDARY-VALUE PROBLEMS; DIFFERENTIAL EQUATIONS; BIFURCATION; ELECTRIC HEATING

The problem of the thermoelectric stability phenomenon has been studied in the paper. Local methods of bifurcation theory have been used to analyze inhomogeneous solutions of the model problem

В работе изучается задача, иллюстрирующая явление термоэлектрической устойчивости. Рассматриваются два основных вопроса, один из них связан с применением локальных методов теории бифуркаций, с помощью которых исследуются неоднородные решения модельной задачи

Small-scale computation of the macroscopic parameters of a cryogenically treated biological tissue

S71;S97

Kudryashov, N.A.; Shil'nikov, K.E. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: nakudr@gmail.com

Melkomasshtabnyj raschet makroskopicheskikh kharakteristik biotkani pri kriogenom vozdeystvii p. 233-242

(RU)

23 refs.

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ISSN 2304-487X

(2016)

v. 5(3)

ENTHALPY; BIOLOGICAL MATERIALS; PHASE TRANSFORMATIONS; CRYOGENICS; MATHEMATICAL SOLUTIONS; NUMERICAL SOLUTION

The influence of the peculiarities of the cell dehydration and intracellular ice formation processes on the macroscopic properties of cryogenically treated tissues has been studied by the authors. The dynamics of the intra- and extracellular ice formation processes for different cooling rates have been investigated

В работе исследуется влияние особенностей процессов дегидратации и внутриклеточного ледообразования в клетках на макроскопические свойства биотканей при криогенном воздействии. Исследуется динамика кристаллизации внутри- и внеклеточной жидкостей при различных скоростях охлаждения биоткани

Selection of the parameters of a PID controller in the automatic control system of a scanning probe microscope

S97

Maslennikov, V.V.; Meshcheryakov, V.V.; Dovgopolaya, E.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: vmaslennikov@mail.ru, mvv_box@bk.ru, e.a.dovg@yandex.ru

Vybor parametrov PID-regulyatora v sisteme avtomaticheskogo upravleniya skaniruyushchego zondovogo mikroskopa

p. 243-245

(RU)

3 refs.

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(2016)

v. 5(3)

MATHEMATICAL SOLUTIONS; EQUATIONS; DIFFERENTIAL EQUATIONS; ELECTRIC CONTROLLERS; Q-VALUE; APPROXIMATIONS

The selection of the parameters of a PID controller in the automatic control system, which prevents vibrations in a scanning probe microscope, has been considered. An alternative approach to the analysis of automatic control systems described by a mathematical model with a cubic characteristic equation has been indicated by the authors

В работе рассматривается выбор параметров PID-регулятора в системе автоматического управления, предотвращающей колебания в процессе сканирования зондовым микроскопом. Указан альтернативный подход к анализу систем автоматического управления, описываемых математической моделью с кубическим характеристическим уравнением

Methods of transmission of highly stable signals through a fiber optic cable for synchronization of radio astronomical equipment

S71;S79

Tsaruk, A.A.; Vytnov, A.V.; Ivanov, D.V. (Inst. Prikladnoj Astronomii RAN, Sankt-Peterburg (RU)), E-mail: altsaruk@gmail.com

Metody peredachi vysokostabil'nykh opornykh signalov po optovolokonnoj linii dlya sinkhronizatsii radioastronomicheskoy apparatury

p. 246-253

(RU)

11 refs.

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v. 5(3)

OPTICS; FIBER OPTICS; ELECTRIC CABLES; RADIO TELESCOPES; SIGNALS; TRANSMISSION; RADIO EQUIPMENT; ASTRONOMY

The methods of compensation of the phase delay of a reference signal in fiber optic lines have been presented in the paper. The system of transmission of a 100-MHz highly stable signal to the radio telescope through a fiber optic cable has been also described

В работе приведены результаты исследования методов компенсации фазовой задержки опорного сигнала, возникающие при его передаче по оптоволоконной линии. Представлена система передачи высокостабильного сигнала эталонной частоты 100 МГц на радиотелескоп по оптоволоконному кабелю

Long-term forecasting of sales of the products of a company in International markets of enriched uranium under restrictions and quotas

S97

Klimanov, S.G.; Kryanev, A.V.; Rostovskij, N.S.; Sliva, D.E.; Smirnov, D.S.; Kharitonov, V.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: VVKharitonov@mephi.ru

Dolgosrochnoe prognozirovanie ob'emov prodazh produktsii kompanii na mezhdunarodnykh ryнкakh obogashchennogo urana v usloviyakh ogranichenij i kvot

p. 254-261

(RU)

18 refs.

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v. 5(3)

FORECASTING; MARKETING; SALES; MATHEMATICS; MATHEMATICAL MODELS; MONTE CARLO METHOD; FUNCTIONAL MODELS

A technique of forecasting company sales in the international regional markets of enriched uranium under imposed restrictions and quotas has been developed by the authors on the basis on scenario forecasts of the demand for company products and has been implemented as a set of computer software

Авторами разработана и реализована в виде комплекса компьютерных программ методика прогноза объемов продаж компании на международных региональных рынках обогащенного урана в условиях вводимых ограничений и квот, использующая сценарные прогнозы потребности в продаваемой продукции на региональных рынках

Complex of probabilistic-entropy and intelligent algorithms for emotiveness-thematic analysis of the evolution of public opinion in the Internet network

S97

Moloshnikov, I.A.; Rybka, R.B.; Gudovskikh, D.V. (NITs Kurchatovskij Inst., Moscow (RU)); Sboev, A.G. (NITs Kurchatovskij Inst., Moscow (RU)); Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: ivan-rus@yandex.ru, sag111@mail.ru, rybkarb@gmail.com, dmitrygagus@gmail.com

Комплекс вероятностно-энтропийных и интеллектуальных алгоритмов для эмотивно-тематического анализа эволюции общественного мнения в интернет сетях

p. 262-267

(RU)

8 refs.

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v. 5(3)

PUBLIC OPINION; PUBLIC RELATIONS; COMPUTER NETWORKS; INTERNET; MATHEMATICAL SOLUTIONS; MATHEMATICAL LOGIC; ENTROPY

The composite algorithm integrating, on one hand, the algorithm of finding documents on a given topic, and, on the other hand, the method of emotiveness evaluation of topical texts has been presented. Some examples of such analysis have been demonstrated and discussed

В работе представлен комплексный алгоритм, включающий, с одной стороны, подход для поиска документов по данной теме, а с другой стороны - метод оценки эмотивности актуальных текстов. Демонстрируются и обсуждаются некоторые примеры такого анализа

Estimation of Copula functions for Gaussian random sequences and Gaussian time series with heavy tails and a strong time dependence

S97

Mazur, A.E. (Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Moscow (RU)), E-mail: amfoly@yandex.ru

Otsenivanie kopul'nykh funktsij dlya gaussovskikh sluchajnykh posledovatel'nostej i gaussovskikh vremennykh ryadov s tyazhelymi khvostami i sil'noj vremennoj zavisimost'yu

p. 268-280

(RU)

9 refs.

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v. 5(3)

MATHEMATICAL MODELS; MATHEMATICAL SOLUTIONS; EXACT SOLUTIONS; EQUATIONS; DIFFERENTIAL EQUATIONS; GAUSSIAN PROCESSES; GAUSS FUNCTION

An estimate of a function that transforms a random variable with the Gaussian distribution to a random variable with the distribution from the Frechet maximum domain of attraction has been obtained in the paper. The asymptotic normality of this estimator has been proven

В работе построена оценка для функции, приводящей стандартные нормально распределенные случайные величины к случайным величинам, имеющим функцию распределения, принадлежащую области притяжения Фреше, и доказана ее асимптотическая нормальность

Graphical shell of expert systems, implemented in the Prolog

S97
Kozin, R.G. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: rkozin@mail.ru
 Graficheskie obolochki ekspertnykh sistem, realizovannye na yazyke Prolog
 p. 281-286
 (RU)
 4 refs.

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 v. 5(3)

MATHEMATICS; MATHEMATICAL MODELS; DIAGRAMS; EXPERT SYSTEMS; KNOWLEDGE BASE; MATHEMATICAL LOGIC; PROLOG

The description and listings of graphic shells of expert systems with forward and backward exit strategy implemented on SWI-Prolog have been presented in the paper

Статья содержит описание и листинги графических оболочек экспертных систем с прямой и обратной стратегиями вывода, реализованных на языке Пролог

Design and experimental assessment of thermal stratification influence on operational loading of surge line of Novovoronezh NPP, Unit #Numero Sign#5

S22
Povarov, V.P.; Urazov, O.V. (Filial OA #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark# #Left-Pointing Double Angle Quotation Mark#Novovoronezhskaya AEhS#Right-Pointing Double Angle Quotation Mark#, Novovoronezh (RU)); Bakirov, M.B.; Levchuk, V.I. (OOO #Left-Pointing Double Angle Quotation Mark#Nauchno-Sertifikatsionnyj Uchebnyj Tsent Materialovedeniya i Resursa Komponentov Yadernoj Tekhniki #Left-Pointing Double Angle Quotation Mark#Tsent Materialovedeniya i Resursa#Right-Pointing Double Angle Quotation Mark#, Lyubertsy (RU)), E-mail: leavc@mail.ru
 Raschetno-ehksperimental'naya otsenka vliyaniya termicheskoy stratifikatsii na ehkspluatatsionnyu nagruzhennost' dykhatel'nogo truboprovoda ehnergloboka #Numero Sign#5 Novovoronezhskoj AEhS
 p. 5-16
 (RU)
 20 refs., 5 figs.

Izvestiya Vysshikh Uchebnykh Zavedenij. Yadernaya Ehnergetika
 ISSN 0204-3327
 (2017)
 (no.1)

NUCLEAR POWER; WWER TYPE REACTORS; NOVOVORONEZH-5 REACTOR; LIFETIME EXTENSION; STRATIFICATION; THERMAL FATIGUE; MONITORING

Design and experimental assessment of thermal stratification influence on operational loading of surge line (SL) of Unit #Numero Sign#5 of Novovoronezh NPP is given in the paper. As a compensatory measure aimed at increasing the SL residual life, authors propose the procedure of treatment of SL weld joints using the method of surface plastic deformation

В работе дана расчетно-экспериментальная оценка влияния термической стратификации на эксплуатационную нагруженность дыхательного трубопровода (ДТ) пятого энергоблока Нововоронежской АЭС. В качестве компенсирующего мероприятия, направленного на повышение остаточного ресурса ДТ, предложена процедура обработки сварных соединений ДТ методом поверхностного пластического деформирования

Experimental estimation of the effect of contact condensation of steam-gas mixture on the VVER passive safety systems operation

S22

Morozov, A.V.; Sakhipgareev, A.R. (AO #Left-Pointing Double Angle Quotation Mark#GNTs RF-FEhI imeni A.I. Lejpunskogo#Right-Pointing Double Angle Quotation Mark#, Obninsk (RU)), E-mail: sas@ippe.ru
Ehksperimental'naya otsenka vliyaniya kontaktnoj kondensatsii parogazovoj smesi na rabotu passivnykh sistem bezopasnosti VVEhR

p. 17-28

(RU)

19 refs., 5 figs., 1 tab.

Izvestiya Vysshikh Uchebnykh Zavedenij. Yadernaya Ehnergetika

ISSN 0204-3327

(2017)

(no.1)

NUCLEAR FACILITIES; WWER TYPE REACTORS; STEAM GENERATORS; VAPOR CONDENSATION; REACTOR SAFETY; NITROGEN; HELIUM

The paper presents the results of experimental study of the effect of contact condensation of steam-gas mixture on the operation of VVER reactor passive safety systems and the steam generator in emergency condensing mode

В работе представлены результаты экспериментального исследования влияния контактной конденсации парогазовой смеси на работу пассивных систем безопасности АЭС с реактором ВВЭР и парогенератора в аварийном конденсационном режиме

Experimental investigation of heat mass exchange processes at the VVER steam generator in emergency condensing mode

S22

Shlepkin, A.S.; Morozov, A.V.; Kalyakin, D.S.; Soshkina, A.S. (AO #Left-Pointing Double Angle Quotation Mark#GNTs RF-FEhI imeni A.I. Lejpunskogo#Right-Pointing Double Angle Quotation Mark#, Obninsk (RU)), E-mail: alekstqel@mail.ru

Ehksperimental'noe issledovanie teplomassoobmennykh protsessov pri rabote parogeneratora VVEhR v avarijnom kondensatsionnom rezhime

p. 29-41

(RU)

21 refs., 7 figs., 2 tabs.

Izvestiya Vysshikh Uchebnykh Zavedenij. Yadernaya Ehnergetika

ISSN 0204-3327

(2017)

(no.1)

NUCLEAR FACILITIES; WWER TYPE REACTORS; STEAM GENERATORS; REACTOR SAFETY; AFTER-HEAT REMOVAL; HEAT TRANSFER

The authors describe the study of heat exchange processes and the efficiency of the steam generator model (SGM) in the condensation mode at various concentrations of non-condensable gases in a steam at the inlet to the SGM, and the discharge rate of the vapor-gas mixture from the cold collector

Авторы описывают исследование теплообменных процессов и работоспособность модели парогенератора (ПГ) в конденсационном режиме при различных концентрациях неконденсирующихся газов в паре на входе в модель ПГ и расходе отвода парогазовой смеси из холодного коллектора

Analysis of safety system pump condition based on their testing results

S22

Leskin, S.T.; Slobodchuk, V.I.; Shelegov, A.S.; Kashin, D.Yu. (Obninskij Inst. Atomnoj Ehnergetiki NIYaU MIFI, Obninsk (RU)), E-mail: STLeskin@mephi.ru

Analiz sostoyaniya nasosov sistem bezopasnosti po dannym izmeryaemykh parametrov pri ikh ispytanii p. 42-50

(RU)

20 refs., 7 figs.

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ISSN 0204-3327

(2017)

(no.1)

NUCLEAR POWER; KALININ-4 REACTOR; REACTOR COMPONENTS; PUMPS; REACTOR SAFETY; DIAGNOSTIC TECHNIQUES; ENTROPY

The method for analyzing the condition of emergency system pumps based on their periodical testing results is presented in the paper. The method and the algorithms are based on the presentation of the testing results in the space of the principal components

В работе представлен алгоритм анализа состояния насосов системы аварийного ввода бора по данным их периодического опробования. Метод и алгоритмы основаны на представлении результатов опробования в пространстве главных компонентов

Prediction of reliability of flow sensors of SHADR-32M heat carrier

S22

Pereguda, A.I.; Belozarov, V.I. (Obninskij Inst. Atomnoj Ehnergetiki NIYaU MIFI, Obninsk (RU)), E-mail: Pereguda@iate.obninck.ru

Prognozirovanie nadezhnosti datchikov raskhoda teplonositelya ShADR-32M

p. 51-62

(RU)

18 refs., 3 figs., 3 tabs.

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NUCLEAR FACILITIES; LWGR TYPE REACTORS; REACTOR SAFETY; MEASURING INSTRUMENTS; FLOWMETERS; MATHEMATICAL MODELS; STOCHASTIC PROCESSES

Authors analyze the reliability of flow sensors of SHADR-32M heat carrier. A mathematical model of the sensor parametrical reliability has been developed. The use of the research results is illustrated by calculating quantitative parametric reliability indicators of the flow sensors

Авторами осуществлен прогноз надежности датчиков расхода теплоносителя ШАДР-32М. Создана математическая модель надежности расходомера. Результаты исследования используются при вычислении количественных показателей параметрической надежности датчиков расхода

Swelling of 16Cr-15Ni-2Mo-Mn-Ti-V-B steel under dose rate from 1x10¹⁸ to 1,7x10¹⁹ dpa/s

S36

Kinev, E.A.; Panchenko, V.L. (AO #Left-Pointing Double Angle Quotation Mark#Inst. Reaktornykh

Materialov#Right-Pointing Double Angle Quotation Mark#, Zarechnyj (RU)), E-mail: kinev007@yandex.ru
Raspukhanie uluchshennoj stali Kh16N15M2GTFR pri skorosti nabora dozy ot 1×10^{-8} do $1,7 \times 10^{-6}$
sna/s
p. 63-72
(RU)
16 refs., 5 figs., 2 tabs.

Izvestiya Vysshikh Uchebnykh Zavedenij. Yadernaya Ehnergetika
ISSN 0204-3327
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(no.1)

MATERIALS; METALS; STAINLESS STEELS; SWELLING; DOSE RATES; RADIATIONS; FAST REACTORS

The swelling of 16Cr-15Ni-2Mo-Mn-Ti-V-B improved steel has been studied by the scientists of the Institute. The obtained data on the maximum swelling temperature and the average speed of swelling in typical temperature ranges of the coolant and the dose rate of fast reactor have been presented in the paper

В работе изучено распухание стали X16H15M2ГТФР улучшенной технологии, получены данные о температуре максимального распухания и средней скорости распухания в типичных диапазонах температур теплоносителя и скорости набора дозы быстрого реактора

Computer modeling of thermal processes with calcium, strontium and cesium radionuclides when radioactive graphite is heated in the carbon dioxide atmosphere
S22;S36

Barbin, N.M. (Ural'skij Gosudarstvennyj Agrarnyj Univ., Ekaterinburg (RU); Ural'skij Inst. GPS MChS Rossii, Ekaterinburg (RU)); Sidash, I.A.; Terent'ev, D.I.; Alekseev, S.G. (Ural'skij Inst. GPS MChS Rossii, Ekaterinburg (RU)), E-mail: 3608113@mail.ru

Komp'yuternoe modelirovanie termicheskikh protsessov s uchastiem radionuklidov kal'tsiya, strontsiya i tseziya pri nagreve radioaktivnogo grafitu v atmosfere uglekislogo gaza

p. 73-82
(RU)

18 refs., 3 figs., 3 tabs.

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REACTORS; RADIOACTIVE WASTE MANAGEMENT; METALS; HEATING; GRAPHITE; RADIOACTIVE MATERIALS

Computer modeling of thermal processes with calcium, strontium and cesium radionuclides when radioactive graphite is heated in the carbon dioxide atmosphere has been presented in the paper. The main reactions are identified and their equilibrium constants are determined. The obtained data show that, at temperatures 573-973 K, vapors of calcium, strontium and cesium chlorides are generated

В работе представлено компьютерное моделирование термических процессов с участием радионуклидов кальция, стронция и цезия при нагреве радиоактивного графита в атмосфере углекислого газа. Выявлены основные реакции и определены их константы равновесия. Полученные данные показывают, что при температурах 573-973 К происходит образование паров хлоридов кальция, стронция и цезия

Assessment of critical condition for IBR reactor with subcritical block in the equilibrium

mode**S21;S22**

Brezhnev, A.I.; Gulevich, A.V.; Kukharchuk, O.F.; Fokina, O.G. (AO #Left-Pointing Double Angle Quotation Mark#GNTs RF-FEhI imeni A.I. Lejpunskogo#Right-Pointing Double Angle Quotation Mark#, Obninsk (RU)), E-mail: brezhand@gmail.com

Otsenka kriticheskogo usloviya dlya raboty reaktora IBR s podkriticheskim blokom v ravnovesnom rezhime p. 83-93

(RU)

15 refs., 3 figs., 1 tab.

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NUCLEAR FACILITIES; FAST REACTORS; PULSED REACTORS; IBR-2 REACTOR; SUBCRITICAL ASSEMBLIES; STEADY-STATE CONDITIONS; NUMERICAL SOLUTION

A system consisting of a fast batch pulsed reactor of the IBR-type and subcritical block (thermal in terms of neutronics) is examined in the paper. A good agreement between the results of direct calculations and estimations obtained using analytical expressions has been demonstrated

В работе рассматривается система, состоящая из быстрого импульсного реактора периодического действия типа ИБР и подкритического (теплового в нейтронно-физическом отношении) блока. Показано удовлетворительное согласие результатов прямых расчетов и оценок по аналитическим соотношениям

Prediction of temperature field of moderator of heavy-water reactor based on cellular neural network**S21**

Starkov, S.O. (Obninskij Inst. Atomnoj Ehnergetiki NIYaU MIFI, Obninsk (RU)); Lavrenkov, Yu.N.

(Kaluzhskij Filial MGTU imeni N.Eh. Baumana, Moscow (RU)), E-mail: georglawr@yandex.ru

Prognozirovanie temperaturnogo polya zamedlitelya v tyazhelovodnom reaktore na osnove kletочноj nejronnoj seti

p. 94-106

(RU)

18 refs., 8 figs.

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(no.1)

POWER REACTORS; HEAVY WATER COOLED REACTORS; CANDU TYPE REACTORS; THERMAL STRESSES; MODERATORS; NEURAL NETWORKS

The prediction of temperature field of moderator of heavy water reactor based on cellular neural network has been suggested by the authors. Comparison of results of forecasting with behavior of the reactor model demonstrated the efficiency of reconstructive analysis of complex systems with application of reconfigurable cellular neural networks, structure of which can be optimized for the specific calculation task

Авторами дан прогноз температурного поля замедлителя в тяжеловодном реакторе на основе клеточной нейронной сети. Сравнительный анализ поведения модели и результатов работы нейронной сети показал, что применение нейросетевого подхода оказывается эффективным в системах обеспечения безопасности энергетических установок

A study of the ionizing radiation impact on lindane and the active substance of #Left-Pointing Double Angle Quotation Mark#hexachlorane dust#Right-Pointing Double Angle Quotation Mark# chemical

S63

Polyakova, L.P.; Mel'nikova, T.V. (Obninskij Inst. Atomnoj Ehnergetiki NIYaU MIFI, Obninsk (RU)); Luk'yanova, N.N. (FGBU NPO Tajfun, Obninsk (RU)), E-mail: lnn@rpatyphoon.ru

Issledovanie posledstvij radiatsionnogo vozdejstviya na lindan i dejstvuyushchee veshchestvo preparata #Left-Pointing Double Angle Quotation Mark#geksakhloran dust#Right-Pointing Double Angle Quotation Mark#

p. 107-115

(RU)

20 refs., 1 fig., 2 tabs.

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(no.1)

RADIATIONS; RADIATION EFFECTS; GAMMA RADIATION; IONIZING RADIATIONS; DOSE RATES; LINDANE; ISOMERS

The article discusses the development of optimal conditions for radiation destruction of organochlorine pesticide, hexachlorocyclohexane, which is the main active ingredient of the chemical #Left-Pointing Double Angle Quotation Mark#hexachlorane dust#Right-Pointing Double Angle Quotation Mark#

В работе рассматривается проблема разработки оптимальных условий радиационной деструкции хлороорганического пестицида гексахлорциклогексана как основного действующего вещества препарата #Left-Pointing Double Angle Quotation Mark#гексахлоран dust#Right-Pointing Double Angle Quotation Mark#. Разложение пестицида исследуется для перспективного применения радиационных технологий при утилизации отходов стойких органических загрязнителей

Sorption of cations the heavy metals and radionuclides from the aqueous medium with new synthetic zeolite-similar sorbent

S38;S63

Shilina, A.S.; Bakhtin, V.D.; Burukhin, S.B.; Askhadullin, S.R. (Obninskij Inst. Atomnoj Ehnergetiki NIYaU MIFI, Obninsk (RU)), E-mail: alla@metal-profi.ru

Sorbtsiya kationov tyazhelykh metallov i radionuklidov iz vodnykh sred novym sinteticheskim tseolitopodobnym sorbentom

p. 116-126

(RU)

20 refs., 4 figs., 3 tabs.

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RADIOISOTOPES; CESIUM; STRONTIUM; HEAVY METALS; SORPTION; RECYCLING; WATER TREATMENT

Authors propose an innovative synthetic aluminosilicate zeolite-similar adsorbent which has the ability to effectively purify water from nuclear power plant and other enterprises nuclear industrial complex. The new sorbent is supposed to be applied at all enterprises where a complex water purification is used

Авторы предлагают новый синтетический алюмосиликатный цеолитоподобный сорбент, способный эффективно очищать водные среды как АЭС, так и других предприятий атомно-промышленного комплекса. Предполагается, что новый сорбент может применяться на всех предприятиях, в жизненных циклах которых используется комплексная водоочистка

Development of the structured relational database for civil plutonium in Russia and its implementation

S11

Pshakin, G.M.; Moseev, P.A.; Korobejnikov, V.V.; Moseev, A.L. (AO #Left-Pointing Double Angle Quotation Mark#GNTs RF-FEhI imeni A.I. Lejpunskogo#Right-Pointing Double Angle Quotation Mark#, Obninsk (RU)), E-mail: pshakin@ippe.ru

Razrabotka bazy dannykh grazhdanskogo plutoniya Rossii i ee primeneniye

p. 127-137

(RU)

16 refs., 2 figs.

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(no.1)

SPENT FUELS; CLOSED-CYCLE SYSTEMS; PLUTONIUM RECYCLE; CIVIL LIABILITY;
NUCLEAR MATERIALS MANAGEMENT; RUSSIAN FEDERATION

The present study is dedicated to the development of the structured relational database for civil plutonium in Russia which would allow preparing input data for implementation of system analytical studies for substantiating the decision on the future use of civil plutonium in Russia

Данная работа посвящена развитию специализированной базы данных по гражданскому плутонию России, которая позволит готовить исходные данные для проведения аналитических исследований в обоснование решений, принимаемых по будущему использованию гражданского плутония России

Experimental researches of dependences of lead coolant axial pumping on the lattice parameters of impellers profiles

S22

Beznosov, A.V.; L'vov, A.V.; Bokov, P.A.; Bokova, T.A.; Razin, V.A. (NGTU imeni R.E. Alekseeva, Nizhnij Novgorod (RU)), E-mail: beznosov@nntu.nnov.ru

Ehksperimental'nye issledovaniya zavisimostej kharakteristik osevykh nasosov, perekachivayushchikh svintsovyyj teplonositel', ot parametrov reshetok profilej rabochikh koles

p. 138-146

(RU)

20 refs., 5 figs.

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POWER REACTORS; COOLANTS; LIQUID METALS; FAST REACTORS; PUMPS; LATTICE
PARAMETERS

The paper presents the results of experimental researches of dependences of axial pump characteristics in the lead coolant on the lattice parameters of impellers profile. The obtained results are recommended for use in the design of axial pumps pumped heavy liquid-metal coolants

В работе представлены результаты исследований зависимостей характеристик осевого насоса в свинцовом теплоносителе от параметров решетки профилей рабочих колес. Эти результаты рекомендуется использовать при проектировании осевых насосов, перекачивающих тяжело-металлические теплоносители

Improving the general and environmental image of nuclear power industry objects

S22;S29

Suzdaleva, A.L. (FGBO VO Natsional'nyj Issledovatel'skij Univ. #Left-Pointing Double Angle Quotation Mark#Moskovskij Ehnergeticheskij Inst.#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)), E-mail: SuzdalevaAL@yandex.ru

Uluchshenie obshchego i ehkologicheskogo imidzha ob"ektov atomnoj ehnergetiki

p. 147-155

(RU)

21 refs.

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NUCLEAR POWER; NUCLEAR POWER PLANTS; ACCIDENTS; REACTOR ACCIDENTS; PUBLIC RELATIONS; PUBLIC INFORMATION

The aim of the paper is to introduce a wide range of experts with effective ways to improve the image of the objects of the Russian nuclear power industry. The author's main conclusion: the Russian government must be involved in improving the image of nuclear power facilities

Целью работы является ознакомление широкого круга специалистов с эффективными способами улучшения имиджа объектов российской атомной энергетики. Автор делает вывод о необходимости участия государства в улучшении имиджа объектов атомной энергетики

Comparative evaluation of nuclear reactor technologies of different maturity levels on economic risk measures

S29

Andrianov, A.A.; Korovin, Yu.A.; Kuptsov, I.S.; Murogov, V.M. (NIYaU #Left-Pointing Double Angle Quotation Mark#MIFI#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Andrianova, O.N. (AO #Left-Pointing Double Angle Quotation Mark#GNTs RF-FEhI imeni A.I. Lejpunskogo#Right-Pointing Double Angle Quotation Mark#, Obninsk (RU)), E-mail: oandrianova@ippe.ru

Uchet ehkonomicheskikh riskov pri sravnitel'nom analize yadernykh tekhnologij razlichnoj stepeni zrelosti

p. 156-168

(RU)

19 refs., 5 figs., 3 tabs.

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ECONOMICS; ECONOMIC ANALYSIS; COST BENEFIT ANALYSIS; DECISION MAKING; COMPARATIVE EVALUATIONS; TECHNOLOGY ASSESSMENT; REACTOR TECHNOLOGY

An examination of applicability of statistical risk measures for different economic and financial performance indicators including uncertainty treatment techniques is presented in the paper within a trial case study on a comparative evaluation of less and more mature unspecified light-water reactor technologies

В работе рассмотрены результаты демонстрационного анализа оценки показателей риска для различных индикаторов экономической эффективности на примере сравнительного анализа двух гипотетических легководяных реакторных технологий, которые должны быть приняты во внимание при выборе наиболее привлекательного варианта этих технологий

Board for Certification of Software Tools at Rostekhnadzor. 25 years at the service of security. Collection of publications. Proceedings of STC NRS

S97

Khamaza, A.A. (ed.)

Federal'naya Sluzhba po Ehkologicheskomu, Tekhnologicheskomu i Atomnomu Nadzoru - Rostekhnadzor, Moscow (RU); Federal'noe Byudzhetnoe Uchrezhdenie Nauchno-Tekhnicheskij Tsentr po Yadernoj i Radiatsionnoj Bezopasnosti - FBU NTTs YaRB, Moscow (RU)

Sovet po attestatsii programmnykh sredstv pri Rostekhnadzore. 25 let na sluzhbe bezopasnosti. Sbornik publikatsij. Trudy NTTs YaRB

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FBU NTTs YaRB

2016

122 p.

(RU)

LEADING ABSTRACT; MATHEMATICAL SOLUTIONS; MATHEMATICAL MODELS; COMPUTERIZED SIMULATION; COMPUTER CALCULATIONS; NUCLEAR ENERGY; REACTOR SAFETY; RADIATION PROTECTION

This collection of proceedings presents the current status of the certification system of software used to justify the nuclear facilities safety, authors have also discussed the ways to improve the software tools certification system and regulatory requirements for the verification of these software tools

В данном сборнике трудов приведено описание современного состояния системы аттестации программных средств, применяемых при обосновании безопасности объектов использования атомной энергии, обсуждены пути дальнейшего совершенствования системы аттестации программных средств и нормативных требований к верификации этих программных средств

The state and development of the software certification system

S22;S97

Bogdan, S.N.; Kovalevich, O.M.; Khamaza, A.A.; Shevchenko, S.A. (FBU NTTs YaRB, Moscow (RU))

Sostoyanie i razvitie sistemy attestatsii programmnykh sredstv

p. 11-22

(RU)

19 refs., 2 figs.

Khamaza, A.A. (ed.)

Federal'naya Sluzhba po Ehkologicheskomu, Tekhnologicheskomu i Atomnomu Nadzoru - Rostekhnadzor, Moscow (RU); Federal'noe Byudzhetnoe Uchrezhdenie Nauchno-Tekhnicheskij Tsentr po Yadernoj i Radiatsionnoj Bezopasnosti - FBU NTTs YaRB, Moscow (RU)

Board for Certification of Software Tools at Rostekhnadzor. 25 years at the service of security.

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NUCLEAR POWER; RADIATION PROTECTION; REACTOR SAFETY; VERIFICATION;
PROGRAMMING; EXPERT SYSTEMS; COMPUTERIZED SIMULATION; COMPUTERIZED
CONTROL SYSTEMS

The authors analyze the state and development of the software certification system as a basis for the safety of nuclear facilities, describe the problems and possible ways to improve software certification, and the problems of qualifying software users

Авторы статьи анализируют состояние и развитие системы аттестации программных средств как основы безопасности объектов атомной энергии, описывают проблемы и возможные пути совершенствования аттестации программных средств, проблемы квалификации пользователей программных средств

Section #Numero Sign#1 #Left-Pointing Double Angle Quotation Mark#Neutron-physical calculations#Right-Pointing Double Angle Quotation Mark#

S22

Zaritskij, S.M. (NITs Kurchatovskij Inst., OFAP-YaR, Moscow (RU))

Sektsiya #Numero Sign#1 #Left-Pointing Double Angle Quotation Mark#Nejtronno-fizicheskie raschety#Right-Pointing Double Angle Quotation Mark#

p. 23-26

(RU)

1 fig.

Khamaza, A.A. (ed.)

Federal'naya Sluzhba po Ehkologicheskomu, Tekhnologicheskomu i Atomnomu Nadzoru - Rostekhnadzor, Moscow (RU); Federal'noe Byudzhethoe Uchrezhdenie Nauchno-Tekhnicheskij Tsentr po Yadernoj i Radiatsionnoj Bezopasnosti - FBU NTTs YaRB, Moscow (RU)

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122 p.

NUCLEAR POWER; RADIATION PROTECTION; REACTOR SAFETY; WWER TYPE REACTORS;
COMPUTER-AIDED DESIGN; REACTOR OPERATION; PROGRAMMING

The author analyzes the role of neutron and physical calculations in connection with the reactor safety problem, and emphasizes the need to certify software for design and operation of the WWER reactors

Автор анализирует роль нейтронно-физических расчетов в проблеме безопасности реакторов, необходимость аттестации программ для проектирования и эксплуатационных расчетов ВВЭР

Section #Numero Sign#2 #Left-Pointing Double Angle Quotation Mark#Calculations of heat transfer and hydrodynamics, coupled neutron and physical, thermal and hydraulic calculations, non-stationary and emergency processes simulation#Right-Pointing Double Angle Quotation Mark#

S22;S97

Kavun, O.Yu.; Lozhkin, S.N.; Shevchenko, R.A.; Shevchenko, S.A. (FBU NTTs YaRB, Moscow (RU));

Solov'ev, S.L. (AO VNIAEhS, Moscow (RU)); Fuks, R.L. (AO DZhET, Moscow (RU))

Sektsiya #Numero Sign#2 #Left-Pointing Double Angle Quotation Mark#Raschety teploperedachi i

gidrodinamiki, svyazannye nejtronno-fizicheskie i teplogidravlicheskie raschety, modelirovanie nestatsionarnykh i avarijnykh protsessov#Right-Pointing Double Angle Quotation Mark#

p. 27-34

(RU)

Khamaza, A.A. (ed.)

Federal'naya Sluzhba po Ehkologicheskomu, Tekhnologicheskomu i Atomnomu Nadzoru - Rostekhnadzor, Moscow (RU); Federal'noe Byudzhethoe Uchrezhdenie Nauchno-Tekhnicheskij Tsentr po Yadernoj i Radiatsionnoj Bezopasnosti - FBU NTTs YaRB, Moscow (RU)

Board for Certification of Software Tools at Rostekhnadzor. 25 years at the service of security.

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122 p.

NUCLEAR POWER; LWGR TYPE REACTORS; WWER TYPE REACTORS; HEAT TRANSFER; HYDRODYNAMICS; HYDRAULICS; ACCIDENTS; COMPUTER CALCULATIONS; CALCULATION METHODS

Calculations of heat transfer and hydrodynamics, coupled neutron and physical, thermal and hydraulic calculations, non-stationary and emergency processes simulation are shown in the paper. Software for calculating the WWER and RBMK reactors safety is described

Показаны расчеты теплопередачи и гидродинамики и связанные нейтронно-физические и теплогидравлические расчеты, описано моделирование нестационарных и аварийных процессов, а также программные средства для расчета безопасности реакторов WWER и RBMK

Section #Numero Sign#3 #Left-Pointing Double Angle Quotation Mark#Calculations of radiation protection and radiation safety#Right-Pointing Double Angle Quotation Mark# S22

Nikitin, A.V. (AO NIKIEhT, Moscow (RU)); Popykin, A.I.; Shevchenko, R.A. (FBU NTTs YaRB, Moscow (RU))

Sektsiya #Numero Sign#3 #Left-Pointing Double Angle Quotation Mark#Raschety radiatsionnoj zashchity i radiatsionnoj bezopasnosti#Right-Pointing Double Angle Quotation Mark#

p. 35-42

(RU)

3 tabs.

Khamaza, A.A. (ed.)

Federal'naya Sluzhba po Ehkologicheskomu, Tekhnologicheskomu i Atomnomu Nadzoru - Rostekhnadzor, Moscow (RU); Federal'noe Byudzhethoe Uchrezhdenie Nauchno-Tekhnicheskij Tsentr po Yadernoj i Radiatsionnoj Bezopasnosti - FBU NTTs YaRB, Moscow (RU)

Board for Certification of Software Tools at Rostekhnadzor. 25 years at the service of security.

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Sovet po attestatsii programmnykh sredstv pri Rostekhnadzore. 25 let na sluzhbe bezopasnosti.

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2016

122 p.

REACTOR SAFETY; RADIATION PROTECTION; RADIATION PROTECTION LAWS; SAFETY STANDARDS; REACTOR ACCIDENTS; COMPUTER CALCULATIONS; REACTOR ACCIDENT SIMULATION

Calculations of radiation protection and radiation safety of nuclear reactors are given in the paper; software tools (ST) for simulating the neutrons and photons transport, as well as STs for simulating the consequences of accidents at nuclear power plants are shown

Даны расчеты радиационной защиты и радиационной безопасности атомных реакторов, показаны программные средства (ПС) для моделирования переноса нейтронов и фотонов, а также ПС для моделирования последствий аварий на АЭС

Section #Numero Sign#4 #Left-Pointing Double Angle Quotation Mark#Calculations of the stress-strain state and the analysis of the strength of reactor core components, equipment and NPP pipelines#Right-Pointing Double Angle Quotation Mark# S22;S97

Rubtsov, V.S. (FBU NTTs YaRB, Moscow (RU))

Sektsiya #Numero Sign#4 #Left-Pointing Double Angle Quotation Mark#Raschety napryazhenno-deformirovannogo sostoyaniya i analiz prochnosti ehlementov aktivnykh zon, oborudovaniya i truboprovodov OIAEh#Right-Pointing Double Angle Quotation Mark#

p. 43-46

(RU)

4 refs.

Khamaza, A.A. (ed.)

Federal'naya Sluzhba po Ehkologicheskomu, Tekhnologicheskomu i Atomnomu Nadzoru - Rostekhnadzor, Moscow (RU); Federal'noe Byudzhethnoe Uchrezhdenie Nauchno-Tekhnicheskij Tsentr po Yadernoj i Radiatsionnoj Bezopasnosti - FBU NTTs YaRB, Moscow (RU)

Board for Certification of Software Tools at Rostekhnadzor. 25 years at the service of security.

Collection of publications. Proceedings of STC NRS

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122 p.

NUCLEAR POWER; REACTOR SAFETY; RADIATION PROTECTION; REACTOR CORES; PIPELINES; PROGRAMMING; COMPUTER CALCULATIONS

Calculations of the stress-strain state and the analysis of the strength of reactor core components, equipment and NPP pipelines are shown in the paper

В работе даны расчеты напряженно-деформированного состояния и анализ прочности элементов активных зон, оборудования и трубопроводов атомных станций в России

Section #Numero Sign#5 #Left-Pointing Double Angle Quotation Mark#Probabilistic safety analysis. The reliability analysis of control systems and technological processes#Right-Pointing Double Angle Quotation Mark# S22

Ershov, G.A. (AO IK ASEh, Moscow (RU)); Morozov, V.B. (AO Atomenergoproekt, Moscow (RU));

Samokhin, G.I. (FBU NTTs YaRB, Moscow (RU)); Shiverskij, E.A. (AO NIKIEhT, Moscow (RU))

Sektsiya #Numero Sign#5 #Left-Pointing Double Angle Quotation Mark#Veroyatnostnyj analiz

bezopasnosti. Analiz nadezhnosti sistem kontrolya i upravleniya tekhnologicheskimi protsessami#Right-Pointing Double Angle Quotation Mark#

p. 47-50

(RU)

Khamaza, A.A. (ed.)

Federal'naya Sluzhba po Ehkologicheskomu, Tekhnologicheskomu i Atomnomu Nadzoru - Rostekhnadzor, Moscow (RU); Federal'noe Byudzhethoe Uchrezhdenie Nauchno-Tekhnicheskij Tsentr po Yadernoj i Radiatsionnoj Bezopasnosti - FBU NTTs YaRB, Moscow (RU)

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122 p.

NUCLEAR POWER; REACTOR SAFETY; RADIATION PROTECTION; CONTROL SYSTEMS; SAFETY ANALYSIS; RISK ASSESSMENT

The stages and levels of probabilistic safety analysis (PSA) of the NPP are defined. The reliability analysis of control systems and technological processes at nuclear power plants has been demonstrated, the practice of PSA is described

Определены этапы и уровни вероятностного анализа безопасности (ВАБ) АЭС. Продемонстрирован анализ надежности систем контроля и управления технологическими процессами на атомных станциях, описана практика выполнения ВАБ

Section #Numero Sign#6 #Left-Pointing Double Angle Quotation Mark#Calculation of NPP building constructions and their reaction to external impacts#Right-Pointing Double Angle Quotation Mark#

S21

Kaliberda, I.V. (FBU NTTs Ehnergobezopasnost', Moscow (RU)); Nefedov, S.S.; Yugaj, T.Z. (FBU NTTs YaRB, Moscow (RU))

Sektsiya #Numero Sign#6 #Left-Pointing Double Angle Quotation Mark#Raschety stroitel'nykh konstruksij OIAEh i ikh reaktsii na vneshnie vozdejstviya#Right-Pointing Double Angle Quotation Mark#

p. 51-56

(RU)

12 refs., 1 tab.

Khamaza, A.A. (ed.)

Federal'naya Sluzhba po Ehkologicheskomu, Tekhnologicheskomu i Atomnomu Nadzoru - Rostekhnadzor, Moscow (RU); Federal'noe Byudzhethoe Uchrezhdenie Nauchno-Tekhnicheskij Tsentr po Yadernoj i Radiatsionnoj Bezopasnosti - FBU NTTs YaRB, Moscow (RU)

Board for Certification of Software Tools at Rostekhnadzor. 25 years at the service of security.

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122 p.

NUCLEAR POWER PLANTS; REACTOR SAFETY; CONSTRUCTION; COMPUTER CALCULATIONS; STRESS ANALYSIS; ENVIRONMENTAL IMPACTS

Calculations of NPP building constructions and their reaction to external impacts are presented. Requirements for NPP building construction are given and justified

В работе даны расчеты строительных конструкций атомных станций и их реакции на внешние воздействия. Приведены и обоснованы требования к строительным конструкциям АЭС

Section#Numero Sign#7 #Left-Pointing Double Angle Quotation Mark#Calculation modeling of physicochemical processes affecting NPP nuclear and radiation safety#Right-Pointing Double Angle Quotation Mark#

S22

Kharitonova, N.L.; Sharafutdinov, R.B.; Shevchenko, S.A. (FBU NTTs YaRB, Moscow (RU))

Sektsiya #Numero Sign#7 #Left-Pointing Double Angle Quotation Mark#Raschetnoe modelirovanie fiziko-khimicheskikh protsessov, vliyayushchikh na yadernuyu i radiatsionnuyu bezopasnost' OIAEh#Right-Pointing Double Angle Quotation Mark#

p. 57-62

(RU)

Khamaza, A.A. (ed.)

Federal'naya Sluzhba po Ehkologicheskomu, Tekhnologicheskomu i Atomnomu Nadzoru - Rostekhnadzor, Moscow (RU); Federal'noe Byudzhethoe Uchrezhdenie Nauchno-Tekhnicheskij Tsentr po Yadernoj i Radiatsionnoj Bezopasnosti - FBU NTTs YaRB, Moscow (RU)

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122 p.

NUCLEAR POWER; REACTOR SAFETY; RADIATION PROTECTION; CONTROL SYSTEMS; SAFETY ANALYSIS; RISK ASSESSMENT; PROGRAMMING

The paper presents computational modeling of physicochemical processes affecting the nuclear and radiation safety of nuclear power plants. Software tools for modeling these processes occurring in systems and elements of nuclear power units are described

В работе представлено расчетное моделирование физико-химических процессов, влияющих на ядерную и радиационную безопасность АЭС. Описаны программные средства для моделирования этих процессов, протекающих в системах и элементах энергоблоков АЭС

Improvement of regulatory requirements for software used in the substantiation of the nuclear facilities safety

S22;S96

Bogdan, S.N.; Kozlova, N.A.; Khamaza, A.A.; Shevchenko, S.A. (FBU NTTs YaRB, Moscow (RU)); Solov'ev, S.L. (AO VNIIAEhS, Moscow (RU))

Sovershenstvovanie normativnykh trebovanij k programmnykh sredstvam, primenyaemym pri obosnovanii bezopasnosti ob'ektov ispol'zovaniya atomnoj ehnergii

p. 65-78

(RU)

13 refs., 2 figs.

Khamaza, A.A. (ed.)

Federal'naya Sluzhba po Ehkologicheskomu, Tekhnologicheskomu i Atomnomu Nadzoru - Rostekhnadzor, Moscow (RU); Federal'noe Byudzhetnoe Uchrezhdenie Nauchno-Tekhnicheskij Tsentr po Yadernoj i Radiatsionnoj Bezopasnosti - FBU NTTs YaRB, Moscow (RU)
Board for Certification of Software Tools at Rostekhnadzor. 25 years at the service of security.
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122 p.

NUCLEAR POWER PLANTS; REACTOR SAFETY; REGULATORY GUIDES; COMPUTER CODES; PROGRAMMING; DATA PROCESSING

Regulatory requirements for software used in the substantiation of the nuclear facilities safety are described in the paper. Main stages of software tools creation and verification defined

Представлен процесс совершенствования нормативных требований к программным средствам (ПС), применяемым при обосновании безопасности объектов использования атомной энергии. Показаны основные этапы создания и верификации ПС

Problems of CFD-codes verification

S97

Lozhkin, S.N.; Shevchenko, S.A.; Yashnikov, D.A. (FBU NTTs YaRB, Moscow (RU))

О problemakh verifikatsii CFD-kodov

p. 79-82

(RU)

10 refs.

Khamaza, A.A. (ed.)

Federal'naya Sluzhba po Ehkologicheskomu, Tekhnologicheskomu i Atomnomu Nadzoru - Rostekhnadzor, Moscow (RU); Federal'noe Byudzhetnoe Uchrezhdenie Nauchno-Tekhnicheskij Tsentr po Yadernoj i Radiatsionnoj Bezopasnosti - FBU NTTs YaRB, Moscow (RU)
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COMPUTERIZED SIMULATION; COMPUTER CODES; PROGRAMMING; COMPUTER CALCULATIONS; CALCULATION METHODS; TURBULENT FLOW

Problems of computational fluid dynamics codes (CFD-codes) use and verification are discussed in the paper. Authors have presented the directions of these problems' solution. They pointed to the need to develop the quality requirements for experimental data used to verify CFD codes

Авторы работы определили проблемы использования и верификации CFD-кодов в атомной энергии и показали направления решения этих проблем, указали на необходимость разработки требований к качеству экспериментальных данных, используемых для верификации CFD-кодов

Analysis of the safety expertise results in terms of comments to the software used in the safety assessment

S22;S97

Aver'yanov, A.V.; Bogdan, S.N.; Zhylmaganbetov, N.M.; Popykin, A.I.; Shevchenko, R.A.; Shevchenko, S.A. (FBU NTTs YaRB, Moscow (RU))

Analiz rezultatov ehkspertizy bezopasnosti v chasti zamechanij k programmnykh sredstvam, ispol'zuemym pri obosnovanii bezopasnosti

p. 83-100

(RU)

Khamaza, A.A. (ed.)

Federal'naya Sluzhba po Ehkologicheskomu, Tekhnologicheskomu i Atomnomu Nadzoru - Rostekhnadzor, Moscow (RU); Federal'noe Byudzhethoe Uchrezhdenie Nauchno-Tekhnicheskij Tsentr po Yadernoj i Radiatsionnoj Bezopasnosti - FBU NTTs YaRB, Moscow (RU)

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122 p.

NUCLEAR POWER PLANTS; RADIATION PROTECTION; REACTOR SAFETY; PROGRAMMING; EXPERT SYSTEMS; COMPUTERIZED SIMULATION; COMPUTERIZED CONTROL SYSTEMS

The paper analyzes the results of the expertise in terms of remarks to the software used to justify the safety of NPP. The data on the application of software in normal operation, transient and emergency modes, as well as in the fuel handling management are given. Calculations of building structures and certification of software for calculating the strength of NPP systems and components are also presented

В работе дан анализ результатов экспертизы безопасности в части замечаний к программным средствам (ПС), используемым при обосновании безопасности объектов атомной энергии. Приведены данные о применении ПС в режимах нормальной эксплуатации, переходных и аварийных режимах, а также при обращении с топливом, даны расчеты строительных конструкций и аттестации ПС для расчетов прочности систем и элементов АЭС

Software certification: the history of formation and development

S22;S96

Gordon, B.G. (FBU NTTs YaRB, Moscow (RU))

Attestatsiya programmnykh sredstv - istoriya stanovleniya i razvitiya

p. 101-110

(RU)

19 refs., 1 fig.

Khamaza, A.A. (ed.)

Federal'naya Sluzhba po Ehkologicheskomu, Tekhnologicheskomu i Atomnomu Nadzoru - Rostekhnadzor, Moscow (RU); Federal'noe Byudzhethoe Uchrezhdenie Nauchno-Tekhnicheskij Tsentr po Yadernoj i Radiatsionnoj Bezopasnosti - FBU NTTs YaRB, Moscow (RU)

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NUCLEAR POWER PLANTS; REACTOR SAFETY; CERTIFICATION; QUALITY ASSURANCE;
REGULATORY GUIDES; COMPUTER CODES; PROGRAMMING

The author describes in detail the history of the creation, formation and development of the software certification system in Russia, determines the prospects and directions for developing the verification and certification of the software for the country's nuclear power industry

Автор подробно описывает историю создания, становления и развития системы аттестации программных средств (ПС) в России, определяет перспективы и направления развития верификации и аттестации ПС для атомной энергетики страны

Conference of young specialists Innovations in nuclear power engineering. Book of abstracts

S22

Aktsionernoe Obshchestvo Ordena Lenina Nauchno-Issledovatel'skij i Konstruktorskij Inst. Ehnergotekhniki imeni N.A. Dollezhalya, Moscow (RU)

Conference of young specialists Innovations in nuclear power engineering

Moscow (RU)

25-26 Nov 2015

Konferentsiya molodykh spetsialistov Innovatsii v atomnoj ehnergetike

Konferentsiya molodykh spetsialistov Innovatsii v atomnoj ehnergetike. Sbornik tezisov dokladov

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91 p.

(RU)

LEADING ABSTRACT; MEETINGS; REACTOR SAFETY; REACTOR PHYSICS; REACTOR TECHNOLOGY; SAFETY ENGINEERING; SYSTEMS ANALYSIS

November 25-26, 2015, the annual conference of young specialists #Left Double Quotation Mark#Innovations in Nuclear Power Engineering#Right Double Quotation Mark# was held. The main purpose of the conference was to increase the activity of young scientists and specialists in scientific and technical, and production activities, the opportunity to exchange best practices, share their professional achievements. At the plenary session and 4 thematic sections - New projects, improvement of modern facilities; Neutron-physical calculation, experiment, protection from ionizing radiation, control; Thermal-hydraulics; Structural materials, strength, corrosion, fuel - about 100 reports were heard and discussed. The topics included the widest range of issues in the field of nuclear science and technology - from the design of reactor systems, the safety of nuclear facilities, coolant technology, radiation protection, calculation codes, the handling of spent fuel, and the introduction of modern information technologies

25-26 ноября 2015 г. состоялась очередная конференция молодых специалистов #Left Double Quotation Mark#Инновации в атомной энергетике#Right Double Quotation Mark#. Главной целью проведения конференции стало повышение активности молодых ученых и специалистов в научно-технической и производственной деятельности, возможность обменяться передовым опытом, поделиться своими профессиональными достижениями. На пленарной сессии и 4 тематических секциях - Новые проекты, усовершенствование современных установок; Нейтронно-физический расчет, эксперимент, защита от ионизирующих излучений, управление; Теплогидравлика; Конструкционные материалы, прочность, коррозия, топливо - были заслушаны и обсуждены около 100 докладов. Тематика включала самый широкий круг вопросов в области атомной науки и техники - от конструкции реакторных систем, безопасности объектов атомной техники, технологии теплоносителя,

радиационной защиты, расчетных кодов, обращения с ОЯТ до внедрения современных информационных технологий

Analysis of boiling water drops in liquid lead-based explosive model

S21
Iskhakov, A.Sh. (FGBOU VO #Left-Pointing Double Angle Quotation Mark#NIU #Left-Pointing Double Angle Quotation Mark#MEhI#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

Conference of young specialists Innovations in nuclear power engineering

Moscow (RU)

25-26 Nov 2015

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Analiz vskipaniya kapli vody v zhidkom svintse na osnove vzryvnoj modeli

p. 10

(RU)

Aksionernoe Obshchestvo Ordena Lenina Nauchno-Issledovatel'skij i Konstruktorskiy Inst.

Ehnergotekhniki imeni N.A. Dollezhalya, Moscow (RU)

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91 p.

FAST REACTORS; LEAD; LIQUID METAL COOLED REACTORS; LIQUID METALS; WATER; REACTOR SAFETY; STEAM GENERATORS; TEMPERATURE RANGE 1000-4000 K; DENSITY

Innovative solutions to ensure the introduction of the concept of LBB in the context of improving leak monitoring systems

S21
Matveev, E.L.; Matveev, A.L.; Tsaptsyn, D.Yu. (AO #Left-Pointing Double Angle Quotation Mark#NIKIEhT#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

Conference of young specialists Innovations in nuclear power engineering

Moscow (RU)

25-26 Nov 2015

Konferentsiya molodykh spetsialistov Innovatsii v atomnoj ehnergetike

Innovatsionnye resheniya dlya obespecheniya vnedreniya kontseptsii TPR v aspekte sovershenstvovaniya sistem kontrolya techi

p. 11

(RU)

Aksionernoe Obshchestvo Ordena Lenina Nauchno-Issledovatel'skij i Konstruktorskiy Inst.

Ehnergotekhniki imeni N.A. Dollezhalya, Moscow (RU)

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LWGR TYPE REACTORS; REACTOR SAFETY; LOSS OF COOLANT; REACTOR COOLING SYSTEMS; COMPUTERIZED CONTROL SYSTEMS; AUTOMATION; ACOUSTIC MONITORING

Critical stands Joint Stock Company #Left Double Quotation Mark#State Scientific Center - Research Institute of Atomic Reactors#Right Double Quotation Mark#: the state, the use of and prospects

S21

Izhutov, A.L.; Kalygin, V.V.; Malkov, A.P.; Petelin, A.L.; Fomin, D.V. (AO #Left-Pointing Double Angle Quotation Mark#GNTs NIIAR#Right-Pointing Double Angle Quotation Mark#, Dimitrovgrad (RU))

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Kriticheskie steny AO #Left-Pointing Double Angle Quotation Mark#GNTs NIIAR#Right-Pointing Double Angle Quotation Mark#: sostoyanie, ispol'zovanie, perspektivy

p. 12

(RU)

Aktsionerное Obshchestvo Ordena Lenina Nauchno-Issledovatel'skij i Konstruktorskiy Inst. Ehnergotekhniki imeni N.A. Dollezhalya, Moscow (RU)

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REACTOR SAFETY; DECISION MAKING; ZERO POWER REACTORS; REACTOR OPERATION; REACTOR SAFETY EXPERIMENTS; REACTOR PLANNING; NUCLEAR MATERIALS MANAGEMENT

Pumping units of the new generation for the main technological systems of NPPs. Import substitution

S22

Babushkin, S.V.; Gladkov, V.V.; Kosterin, E.V.; Barkaev, D.Eh. (AO #Left-Pointing Double Angle Quotation Mark#OKBM Afrikantov#Right-Pointing Double Angle Quotation Mark#, Nizhnij Novgorod (RU))

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Nasosnye agregaty novogo pokoleniya dlya osnovnykh tekhnologicheskikh sistem AEhS.

Importozameshchenie

p. 12-13

(RU)

Aktsionerное Obshchestvo Ordena Lenina Nauchno-Issledovatel'skij i Konstruktorskiy Inst. Ehnergotekhniki imeni N.A. Dollezhalya, Moscow (RU)

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NUCLEAR POWER PLANTS; PUMPS; CIRCULATING SYSTEMS; TECHNOLOGY ASSESSMENT;
REACTOR TECHNOLOGY; RELIABILITY

Application of the method of spectrophotometry to the study of the kinetics of Th(IV) hydrolysis in solution

S38

Radkevich, A.V. (GNU #Left-Pointing Double Angle Quotation Mark#OIEhYaI-Sosny#Right-Pointing Double Angle Quotation Mark# NAN Belarusi, Minsk (BY))

Conference of young specialists Innovations in nuclear power engineering

Moscow (RU)

25-26 Nov 2015

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Primenenie metoda spektrofotometrii k issledovaniyu kinetiki gidroliza Th(IV) v rastvore

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Talabanov, M.G.; Trofimov, M.A. (IATEh NIYaU #Left-Pointing Double Angle Quotation Mark#MIFI#Right-Pointing Double Angle Quotation Mark#, Obninsk (RU))

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Arefinkina, S.E.; Surin, V.I. (NIYaU MIFI, Moscow (RU))

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Khodzhaeva, A.V.; Tsukanov, M.V. (GNTs RF AO #Left-Pointing Double Angle Quotation Mark#NPO #Left-Pointing Double Angle Quotation Mark#TsNIITMASH#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Khajretdinov, V.U.; Panchev, A.M. (AO OKB #Left-Pointing Double Angle Quotation Mark#GIDROPRESS#Right-Pointing Double Angle Quotation Mark#, Podol'sk (RU)); Martynenko, S.S.; Maleev, M.A. (NIYaU #Left-Pointing Double Angle Quotation Mark#MIFI#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Aleshin, A.V.; Shut'ko, K.I.; Fakeev, P.I. (AO #Left-Pointing Double Angle Quotation Mark#NIKIEhT#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Khajretdinov, V.U.; Malyshev, R.Yu.; Badanova, M.V. (AO OKB #Left-Pointing Double Angle Quotation Mark#GIDROPRESS#Right-Pointing Double Angle Quotation Mark#, Podol'sk (RU))

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Kotel'nikov, V.I. (NGTU im. R.E. Alekseeva, Nizhnij Novgorod (RU)); Lapina, E.V. (AO #Left-Pointing Double Angle Quotation Mark#OKBM Afrikantov#Right-Pointing Double Angle Quotation Mark#, Nizhnij Novgorod (RU))

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Khajretdinov, V.U.; Frolov, E.S. (AO OKB #Left-Pointing Double Angle Quotation Mark#GIDROPRESS#Right-Pointing Double Angle Quotation Mark#, Podol'sk (RU))

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Formation of a coating of MgF₂ on the surface of steel for protection against the action of freons in NPPs of the #Left Double Quotation Mark#BREST#Right Double Quotation Mark# type

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Zagrebaev, S.A.; Orlova, E.A.; Alekseev, V.V.; Zhmurin, V.G.; Volov, A.N.; Torbenkova, I.Yu. (AO #Left-Pointing Double Angle Quotation Mark#GNTs RF-FEhI#Right-Pointing Double Angle Quotation Mark#, Obninsk (RU)); Orlov, M.A.; Shirshov, Ya.N.; Tychinskij, P.I. (MGU im. M.V. Lomonosova, Moscow (RU))

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Beznosov, A.V.; Zudin, A.D.; Korotin, A.S.; Talin, V.A.; Shikhov, D.V. (NGTU im. R.E. Alekseeva, Nizhnij Novgorod (RU))

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Rtishchev, N.A.; Semenov, V.N.; Tarasov, A.E.; Chalyj, R.V. (IBRAEh RAN, Moscow (RU)); Anfimov, A.M. (AO #Left-Pointing Double Angle Quotation Mark#OKBM Afrikantov#Right-Pointing Double Angle Quotation Mark#, Nizhnij Novgorod (RU))

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Li, Kh.; Lyu, Ts.; Din, N.; Vehj, S.; Khuan, Ts.; Chzhan, Ya.; Syao, D.; Syueh, Ch. (Inst. Prikladnoj Fiziki i Komp'yuternoj Matematiki, Pekin (CN)), E-mail: li_hua@iapcm.ac.cn

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(Inst. Mekhaniki i Mashinostroeniya KazNTs RAN, Kazan' (RU)); Il'gamov, M.A. (Inst. Mekhaniki imeni R.R.

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*Gerasimov, A.V. (NII Prikladnoj Matematiki i Mekhaniki Tomskogo Gosudarstvennogo Univ., Tomsk (RU)),
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*Glazyrin, S.I. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Ehksperimental'noj Fiziki, Sarov (RU)), E-mail:
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Investigation into the influence of high intensive acousto-convective impact on the dynamics of moisture extraction from cedar kernels

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Fedorov, A.V.; Zhilin, A.A. (Inst. Teoreticheskoy i Prikladnoj Mekhaniki imeni S.A. Khristianovicha SO RAN, Novosibirsk (RU)), E-mail: lab20@itam.nsc.ru

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FOOD PROCESSING

**Investigation of the falling of the #Left-Pointing Double Angle Quotation
Mark#Chelyabinsk#Right-Pointing Double Angle Quotation Mark# meteorite fragment on
the Chebarkul Lake**

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*Khajbrakhmanov, S.A.; Dudorov, A.E. (Chelyabinskij Gosudarstvennyj Univ., Chelyabinsk (RU)), E-mail:
khaibrakhmanov@csu.ru*

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**Investigation of the 12Kh18N10T steel spherical samples, loaded by converging shock
waves, by means of magnetic powder figures**

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*Zel'dovich, V.I.; Kheifets, A.Eh.; Frolova, N.Yu. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU)), E-mail:
kheifetz@imp.uran.ru; Muzyrya, A.K.; Simonov, A.Yu. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII
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Khimicheskij i mineral'nyj sostav khondrita #Left-Pointing Double Angle Quotation

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Physical mechanisms and cumulative limitations in the cavitation bubbles collapse

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The destructive atmospheric vortices: theorems, calculations, experiments

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Bautin, S.P.; Bautin, K.V. (Ural'skij Gosudarstvennyj Univ. Putej Soobshcheniya, Ekaterinburg (RU));

Krutova, I.Yu. (Snezhinskij Fiziko-Tekhnicheskij Inst., Snezhinsk (RU)); Obukhov, A.G. (Tyumenskij Gosudarstvennyj Neftegazovyy Univ., Tyumen' (RU)), E-mail: SBautin@math.usurt.ru, IYKrutova@mephi.ru, aobukhov@tsogu.ru

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Abbott, D. (Geologicheskaya Observatoriya Lamont-Dokherti, Kolumbijskij Univ., N'yu-Jork (US)); Bryant, E. (Fakul'tet Geonauk, Univ. Vollongonga, Vollongong (AU)); Gusyakov, V.K. (Inst. Vychislitel'noj Matematiki i Matematicheskoy Geofiziki SO RAN, Novosibirsk (RU)), E-mail: gvk@sscc.ru; Masse, V. (Los-Alamoskaya Natsional'naya Lab., Los-Alamos (US))

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Increasing the rate of nuclear fusion reactions in nonideal plasma by quantum corrections **S70**

*Gryaznov, V.K.; Lomonosov, I.V. (Inst. Problem Khimicheskoy Fiziki RAN, Chernogolovka (RU));
Petrushevich, Yu.V.; Starostin, A.N. (Gosudarstvennyj Nauchnyj Tsentr RF Troitskij Inst. Innovatsionnykh i
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Dynamics of the nonsequential double ionization (NSDI) of atoms in an intense laser pulse **S70**

Lyu, Ts.; Li, Kh.; Vehj, S.; Din, N. (Inst. Prikladnoj Fiziki i Vychislitel'noj Matematiki, Pekin (CN))

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Din, N.; Li, Kh.; Chzhan, U.; Syueh, Ch.; Khuan, Ts.; Sun, Sh.; Vehj, S.; Lyu, Ts. (Inst. Prikladnoj Fiziki i Vychislitel'noj Matematiki, Pekin (CN))

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Enthalpic and entropic phase transitions in high energy density nuclear matter

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Iosilevskij, I. (Ob''edinennyj Inst. Vysokikh Temperatur, Moscow (RU); MFTI, Moscow (RU)), E-mail: iosilevskij@gmail.com

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Gryaznov, V.K. (Inst. Problem Khimicheskoy Fiziki RAN, Chernogolovka (RU); Tomskij Natsional'nyj

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Starostin, A.N.; Gladush, M.G.; Petrushevich, Yu.V. (Inst. Spektroskopii RAN (ISAN), Troitsk (RU); FGUP GNTs RF TRINITI, Troitsk (RU)), E-mail: mglad@isan.troitsk.ru

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Simulation of properties of metals under the action of intense femtosecond laser pulses

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Fokin, V.B.; Levashov, P.R.; Povarnitsyn, M.E.; Khishchenko, K.V. (Ob''edinennyj Inst. Vysokikh Temperatur RAN, Moscow (RU)), E-mail: Vladimir.Fokin@phystech.edu

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Transport properties of dense plasmas based on average-atom models

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Ovechkin, A.A.; Loboda, P.A. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU)), E-mail: a.a.ovechkin@vniitf.ru

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Smirnov, N.A. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU)), E-mail: nasmirnov@vniitf.ru

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The effect of the first-order corrections to electron configuration energies on the ionization equilibrium on dense multielectron-ion plasmas using the modified superconfiguration approach

S70

Loboda, P.A.; Ovechkin, A.A.; Popova, V.V.; Shadrin, A.A. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU)), E-mail: A.A.Shadrin@vniitf.ru

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Gubchenko, V.M. (IPF RAN, Nizhnij Novgorod (RU)), E-mail: ua3thw@appl.sci-nnov.ru

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Magneto-active laser and astrophysical plasmas

S70
*Belyaev, V.S.; Matafonov, A.P. (Tsentral'nyj Nauchno-Issledovatel'skij Inst. Mashinostroeniya, Korolev (RU)),
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*Gus'kov, S.Yu. (Fizicheskij Inst. imeni P.N. Lebedeva RAN, Moscow (RU)); Krasnyuk, I.K. (Inst. Obshchej
Fiziki imeni A.M. Prokhorova RAN, Moscow (RU)), E-mail: krasnyuk@kapella.gpi.ru*

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Research on interaction of a laser plasma cloud and magnetic field in the experiments on #Left-Pointing Double Angle Quotation Mark#MKV-4#Right-Pointing Double Angle Quotation Mark# test bench and their interpretation in theory and calculations

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Anan'in, D.O.; Bessarab, A.V.; Bondarenko, G.A.; Gusakov, A.V.; Dolgoleva, G.V.; Zhmajlo, V.A.; Nikitin, I.N.; Novikova, E.A.; Salatov, E.A.; Statsenko, V.P. (Rossijskij Federal'nyj Yadernyj Tsentr - VNIIEF, Snezhinsk (RU)), E-mail: n_yanilkina@vniief.ru

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NUCLEAR PHYSICS; PLASMA; PLASMA DENSITY; MAGNETIC FIELDS; CALCULATION METHODS; PLASMASPHERE

Theoretical and experimental studies of absorption of femtosecond laser pulses in solid-density copper

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Loboda, P.A.; Zamuraev, D.O.; Karlykhanov, N.G.; Loboda, E.A.; Ovechkin, A.A.; Potapov, A.V.; Smirnov, N.A.; Tishchenko, A.S.; Shadrin, A.A.; Shamraev, A.L. (Rossijskij Federal'nyj Yadernyj Tsentr - VNIIEF, Snezhinsk (RU)), E-mail: p.a.loboda@vniief.ru

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Kim, D.A.; Novikov, V.G.; Dolgoleva, G.V.; Solomyannaya, A.D. (Inst. Prikladnoj Matematiki imeni M.V. Keldysha RAN, Moscow (RU)), E-mail: dima83ipm@yandex.ru
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Zimakov, V.P.; Kuznetsov, V.A.; Solov'ev, N.G.; Shemyakin, A.N.; Shilov, A.O.; Yakimov, M.Yu. (Federal'noe Gosudarstvennoe Byudzhethoe Uchrezhdenie Nauki Inst. Problem Mekhaniki imeni A. Yu. Ishlinskogo, Moscow (RU)), E-mail: yakimov@lantanlaser.ru

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Brantov, A.V.; Bychenkov, V.Yu. (Tsentr Fundamental'nykh i Prikladnykh Issledovaniy VNIIA, Moscow (RU); Federal'noe Gosudarstvennoe Byudzhethoe Uchrezhdenie Nauki #Left-Pointing Double Angle Quotation Mark#Fizicheskij Inst. imeni P.N. Lebedeva RAN#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)), E-mail: brantov@sci.lebedev.ru

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Safronov, K.V.; Vikhlyaev, D.A.; Gavrilov, D.S. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU)), E-mail: dep5@vniitf.ru (and others)

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Runaway electrons in spark discharge in high-pressure nitrogen**S70***Ivanov, S.N. (Inst. Ehlektrofiziki UrO RAN, Ekaterinburg (RU)), E-mail: stivan@iep.uran.ru***Zababakhin scientific talks. XII International conference**

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karat@tarak.msk.su; Tarakanov, V.P. (Ob'edinennyj Inst. Vysokikh Temperatur RAN, Moscow (RU))

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Boundaries of thermodynamic stability for wide-range EOS of fully ionized electron-ionic plasmas

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Zilevich, A.I. (Moskovskij Fiziko-Tekhnicheskij Inst. (Gosuniversitet), Moscow (RU)); Stroev, N.E.; Iosilevskij, I.L. (Moskovskij Fiziko-Tekhnicheskij Inst. (Gosuniversitet), Moscow (RU); Ob'edinennyj Inst. Vysokikh Temperatur RAN, Moscow (RU)), E-mail: ilios@orc.ru

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Zhvaniya, I.A.; Gordienko, V.M.; Makarov, I.A.; Garmatina, A.A. (Fizicheskij Fakul'tet i MLTs MGU imeni M.V. Lomonosova, Moscow (RU)), E-mail: Irina.zhvaniya@physics.msu.ru

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Effect of severe plastic deformation on the charge state of the ions in the layered cobaltites GdBaCo₂O_{5.5} and LiCoO₂

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Electrical conductivity of titanium and titanium hydride at megabar pressures of shock compression

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Grinberg, B.A. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU)); Ivanov, M.A. (Inst. Metallofiziki imeni G.V. Kurdyumova NAN, Kiev (UA)); Kuz'min, S.V.; Lysak, V.I. (Volgogradskij Gosudarstvennyj Tehniceskij Univ., Volgograd (RU)), E-mail: bella@imp.uran.ru

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Investigation of shock-wave properties of matter with anomalous compressibility

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*Kadatskij, M.A.; Khishchenko, K.V. (Ob'edinennyj Inst. Vysokikh Temperatur RAN, Moscow (RU)), E-mail:
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Lattice distortion of the intermetallic compound Ni₃(Al, Ti) under severe plastic deformation

S36

*Kazantseva, N.V.; Pilyugin, V.P. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU); Ural'skij Federal'nyj
Univ., Ekaterinburg (RU)); Kolosov, V.Yu. (Ural'skij Federal'nyj Univ., Ekaterinburg (RU))*

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Special features of quasispherical convergence dynamics of steel shells based on laser interferometry results and recovered shells study by the ISDT and SEM methods

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Kozlov, E.A.; Brichikov, S.A.; Kuchko, D.P. (Rossiiskij Federal'nyj Yadernyj Tsent - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU)), E-mail: e.a.kozlov@vniitf.ru (and others)

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Shear strength and plastic localization in alloy Al-Cu under shock loading

S36;S97

Krasnikov, V.S. (Yuzhno-Ural'skij Gosudarstvennyj Univ., Chelyabinsk (RU)), E-mail: vas.krasnikov@gmail.com; Majer, A.E. (Chelyabinskij Gosudarstvennyj Univ., Chelyabinsk (RU)), E-mail: mayer@csu.ru

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The formation of residual stresses in the target containing inclusion under radiation by powerful energy flow

S36;S97

Krasnikov, V.S.; Yalovets, A.P.; Kashukov, S.V. (Yuzhno-Ural'skij Gosudarstvennyj Univ., Chelyabinsk (RU)), E-mail: vas.krasnikov@gmail.com, yalovets.alex@rambler.ru, skashukov@mail.ru

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Experimental study of poly- and monocrystalline diamonds at negative pressures using picosecond laser pulses

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Abrosimov, S.A.; Bazhulin, A.P.; Bol'shakov, A.P. (Inst. Obshchej Fiziki imeni A.M. Prokhorova RAN, Moscow (RU)) (and others)

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Kuropatenko, V.F. (Rossijskij Federal'nyj Yadernyj Tsentr - VNIITF Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU)), E-mail: v.f.kuropatenko@vniitf.ru

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New data on shear and spall strengths of quenched 30KhGSA steel under explosive loading in the region of reversible α' - ϵ -phase transformation based on results of multi-channel laser interferometry, metallographic analysis, and electron microscopy of recovered samples

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Kozlov, E.A.; Tarzhanov, V.I.; Pankratov, D.G. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU)), E-mail: e.a.kozlov@vniitf.ru (and others)

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Model behavior of porous mixtures and alloys containing quartz in its composition with the shock wave loading

S36

Maevskij, K.K.; Kinelovskij, S.A. (Inst. Gidrodinamiki SO RAN imeni M.A. Lavrent'eva, Novosibirsk (RU)), E-mail: skin@hydro.nsc.ru, konstantinm@hydro.nsc.ru

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Localization of plastic deformation at the shock wave front

S97

Majer, A.E. (Chelyabinskij Gosudarstvennyj Univ., Chelyabinsk (RU)), E-mail: mayer@csu.ru; Borodin, I.N. (Inst. Problem Mashinovedeniya RAN, Sankt-Peterburg (RU); Chelyabinskij Gosudarstvennyj Univ., Chelyabinsk (RU)); Krasnikov, V.S. (Yuzhno-Ural'skij Gosudarstvennyj Univ., Chelyabinsk (RU); Chelyabinskij Gosudarstvennyj Univ., Chelyabinsk (RU))

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Lokalizatsiya plasticheskij deformatsii vo fronte udarnoj volny

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MATHEMATICAL MODELS; COMPUTERIZED SIMULATION; KINETIC EQUATIONS; METALS;
LIQUID METALS; FRACTURES

Two-dimensional model of the dynamic fracture of liquid metal under the action of intensive electron irradiation and the metal melts strength

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Majer, P.N.; Majer, A.E. (Chelyabinskij Gosudarstvennyj Univ., Chelyabinsk (RU)), E-mail: polina.nik@mail.ru

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FRACTURES; MATHEMATICAL MODELS

Heterogeneous deformation of metals at convergence of cylindrical apertures having small diameters under effect of shock waves

S36

Malyshev, A.N.; Zamotaev, D.N.; Ignatova, O.N.; Tyupanova, O.A.; Tkachenko, M.I.; Shepelev, Eh.G.; Podurets, A.M.; Balandina, A.N.; Kondrokhina, I.N. (Rossijskij Federal'nyj Yadernyj Tsentr - VNIITF)
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Geterogennoe deformirovanie metallov pri skhozhenii tsilindricheskikh otverstij malogo diametra pod vozdejstviem udarnykh voln

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Hypervelocity impact of ring impactors

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El'kin, V.M.; Mikhajlov, V.N.; Mikhajlova, T.Yu. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskij Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU)), E-mail: v.m.elkin@vniitf.ru

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Mikhajlyukov, K.L.; Khramov, I.V.; Potapov, S.V.; Frolova, N.V. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Eksperimental'noj Fiziki, Sarov (RU))

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PHYSICS; EDGE LOCALIZED MODES; PROTON RADIOGRAPHY; PROTONS; MICROSCOPES;
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Dynamic experiment #Left Double Quotation Mark#in situ#Right Double Quotation Mark# and multi-scale kinetics of damage evolution at intense loads

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Najmark, O.B. (Inst. Mekhaniki Sploshnykh Sred UrO RAN, Perm' (RU)), E-mail: naimark@icmm.ru
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nagruzkakh

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Integrated theoretical-and-experimental study of natural materials behavior under explosive loading

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Orlov, M.Yu.; Orlov, Yu.N.; Sadokhin, A.N. (Natsional'nyj Issledovatel'skij Tomskij Gosudarstvennyj Univ., Tomsk (RU); OOO KuzbassSpetsVzryv, Kemerovo (RU))

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Structural modification in Al-Mg alloy by dynamic channel-angular pressing

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Petrova, A.N.; Brodova, I.G.; Astaf'ev, V.V. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU)), E-mail: petrovanastya@yahoo.com; Shorokhov, E.V.; Granskij, A.A.; Nasonov, A.P.; Gaan, K.V. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU))

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Pilyugin, V.P.; Grinberg, B.A.; Tolmachev, T.P.; Gapontseva, T.M. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU)), E-mail: pilyugin@imp.uran.ru; Solov'eva, Yu.V. (Tomskaya Gosudarstvennaya Arkhitekturno-Stroitel'naya Akademiya, Tomsk (RU)); Ancharov, A.I. (Inst. Khimii Tverdogo Tela i Mekhanokhimii SO RAN, Novosibirsk (RU))

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Protsenko, S.P.; Tipeev, A.O.; Bajdakov, V.G. (Inst. Teplofiziki UO RAN, Ekaterinburg (RU)), E-mail: sp@itp.uran.ru; Ionov, G.V.; Dremov, V.V.; Karavaev, A.V. (Rossijskij Federal'nyj Yadernyj Tsentr - VNIITF Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU))

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Substantiation of capability for metals' behavior predictability under extreme conditions on the basis of specified general regularities of dynamic failure processes

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Uchaev, A.Ya.; Punin, V.T.; Sel'chenkova, N.I.; Kosheleva, E.V. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Eksperimental'noj Fiziki, Sarov (RU)), E-mail: uchaev@expd.vniief.ru

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Sokovikov, M. A.; Chudinov, V.V.; Bilalov, D.A.; Oborin, V.A.; Uvarov, S.V.; Plekhov, O.A.; Najmark, O.B. (Inst. Mekhaniki Sploshnykh Sred UrO RAN, Perm' (RU)), E-mail: sokovikov@icmm.ru; Petrova, A.N.; Brodova, I.G. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU))

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Diffusion of point defects in uranium mononitride: atomistic simulation and ab-initio calculation

S36;S97

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Localization of deformation and vortex structure in single-crystal and polycrystalline metals and alloys under loading by spherical converging shock waves

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Taluts, N.I.; Dobromyslov, A.V. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU)), E-mail: NinaTaluts@imp.uran.ru; Kozlov, E.A. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU))

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Makeeva, I.R.; Dorovskikh, I.A.; Volkov, I.A.; Dyrda, N.D.; Belonogova, E.A. (Rossijskij Federal'nyj Yadernyj Tsentr - VNIITF Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU)), E-mail: i.r.makeyeva@vniitf.ru

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Analiz vozmozhnykh variantov razvitiya yadernoj ehnergetiki s pomoshch'yu kompleksa ATEhK
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3 refs.

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NUCLEAR POWER; FAST REACTORS; FUEL CYCLE; BURNUP; THORIUM RESERVES;
SIMULATION

Comparative VVER-1200 reactor calculations

S21

Modestov, D.G.; Zueva, L.M.; Kashaeva, E.A.; Malyshkin, G.N.; Nikul'shin, M.V.; Silant'eva, I.Yu. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU)), E-mail: d.g.modestov@vniitf.ru; Bikeev, A.S.; Kalugin, M.A.; Shkarovskij, D.A. (NITs #Left-Pointing Double Angle Quotation Mark#Kurchatovskij Inst.#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Sravnitel'nye raschety kampanii reaktora VVEhR-1200

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9 refs.

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COMPUTER CALCULATIONS; NRC KURCHATOV INSTITUTE

Choice of the demonstration molten-salt reactor

S21

Belonogov, M.N.; Volkov, I.A.; Dyrda, N.D.; Trapeznikov, M.A. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU)), E-mail: m.n.belonogov@vniitf.ru

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O vybore demonstratsionnogo rasplavno-solevogo reaktora

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NUCLEAR ENERGY; REACTORS; MOLTEN SALT COOLED REACTORS; REACTOR CORES;
THERMAL ANALYSIS; COMPUTER CALCULATIONS

The questions of organizing modes of fast reactors

S21

Dyrda, N.D.; Makeeva, I.R.; Simonenko, V.A. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU))

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Voprosy organizatsii rezhimov raboty bystrykh reaktorov

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NITRIDES; COMPUTER CALCULATIONS

TANDEM program for parallel computing of coupled neutron-physical and thermal-hydraulic characteristics of reactor cores

S21;S22

Silant'eva, I.Yu.; Zueva, L.M.; Kashaeva, E.A.; Malyshkin, G.N.; Modestov, D.G.; Mogilenskikh, D.V.; Mokshin, S.Yu.; Nikul'shin, M.V.; Orlov, V.G.; Yazova, E.Yu. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU)), E-mail: i.yu.silantieva@vniitf.ru

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Programma TANDEM dlya obespecheniya provedeniya paralel'nykh svyazannykh raschetov nejtronno-fizicheskikh i teplogidravlicheskikh kharakteristik aktivnykh zon reaktornykh ustanovok

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NUCLEAR FACILITIES; REACTOR CORES; WWER TYPE REACTORS; FAST REACTORS;
HYDRAULICS; SIMULATION

Development and verification of heat-hydraulics unit for SOCRAT-BN code

S21;S97

Vinogradova, Yu.Yu.; Ryzhov, N.I. (Inst. Problem Bezopasnogo Razvitiya Atomnoj Ehnergetiki RAN, Moscow (RU)), E-mail: vinogradova@ibrae.ac.ru

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NUCLEAR POWER; BN-800 REACTOR; REACTOR SAFETY; REACTOR ACCIDENTS; HYDRAULIC
EQUIPMENT; COMPUTER CODES; COMPUTER CALCULATIONS

PRIZMA code: tagged particles for resolving initial data uncertainties in radiation transport by the Monte Carlo method

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Dorosev, A.S. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU)); NIYaU MIFI, Snezhinskij Fiziko-Tekhnicheskij Inst., Snezhinsk (RU)); Samarin, S.I.; Serova, E.V. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU))

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Ispol'zovanie metoda #Left-Pointing Double Angle Quotation Mark#mechenykh chastits#Right-Pointing Double Angle Quotation Mark# dlya ucheta neopredelennostej iskhodnykh dannykh pri otsenke funktsionalov metodom Monte-Karlo po programme PRIZMA dlya zadach perenosa izlucheniya
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6 refs.

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NUCLEAR POWER; WWER TYPE REACTORS; REACTOR CORES; COMPUTER CALCULATIONS;
MONTE CARLO METHOD; COMPUTER CODES

Hardware and software of control system of radiation safety for complex PIK. Variant is physical startup

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Vavilova, I.G.; Golikov, A.R.; Kolkhidashvili, M.R.; Marchenkov, V.V.; Ploshchanskij, L.M.; Savel'eva, T.V.; Smol'skij, S.L.; Solovej, V.A.; Fokin, E. Yu. (Natsional'nyj Issledovatel'skij Tsentr #Left-Pointing Double Angle Quotation Mark#Kurchatovskij Inst.#Right-Pointing Double Angle Quotation Mark#, FGBU PIYaF imeni B.P. Konstantinova, Gatchina (RU)), E-mail: igvavilova@pnpi.spb.ru

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POWER REACTORS; PIK REACTOR; CONTROL SYSTEMS; REACTOR CONTROL SYSTEMS;
RADIATION PROTECTION; COMPUTER CALCULATIONS; COMPUTERIZED SIMULATION

Problems of experimental investigations for NPS hydrogen safety ensuring

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Lavrenyuk, I.V.; Valeeva, O.V.; Anikin, N.B.; Ul'yanov, S.M. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU)), E-mail: i.v.lavrenyuk@vniitf.ru

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Experimental investigation of hydrogen-air flames for hydrogen safety concern in 1:200 scale

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Anikin, N.B.; Pavlenko, A.V.; Balabin, S.I.; Shestachenko, O.E.; Grigor'ev, A.N.; Bugaenko, I.L.; Piskunov, Yu.A. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU))

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Numerical study of hydrogen-oxygen mixture combustion in nuclear reactor dome during severe accident

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Glazyrin, I.V.; Balabin, S.I.; Bugaenko, I.L.; Karpeev, A.V.; Kotova, O.G.; Mikhajlov, N.A.; Nadol'skij, A.A.; Pavlenko, A.V.; Simonenko, V.A.; Shul'ts, O.V. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU)), E-mail: i.v.glazyrin@vniitf.ru

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NUCLEAR POWER; REACTOR SAFETY; REACTOR ACCIDENT SIMULATION; SEVERE ACCIDENTS; FIRES; COMPUTER CALCULATIONS; COMPUTERIZED SIMULATION

Thermodynamic simulation of the nitride SNF

S21

Potapov, A.M. (Inst. Vysokotemperaturnoj Ehlektrokhimii UrO RAN, Ekaterinburg (RU)), E-mail: A.Potapov_50@mail.ru

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Developing of computer models for carbothermic reduction of uranium and plutonium oxides

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Peshkichev, I.V.; Shul'ts, O.V.; Skibo, A.A.; Belonogova, E.A.; Paukova, A.E.; Simonenko, V.A.; Sokolov, V.P.; Makeeva, I.R. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU))

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Hadron therapy

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Samarin, S.I. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU)), E-mail: Samarine@mail.ru; Kostyuchenko, V.I. (FGBU GNTs RF Inst. Teoreticheskoy i Ehksperimental'noj Fiziki, Moscow (RU)), E-mail: kv-i@ya.ru

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Verification of a Monte Carlo-based program IThMC

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Kostyuchenko, V.I.; Makarova, A.S. (NITs #Left-Pointing Double Angle Quotation Mark#Kurchatovskij Inst.#Right-Pointing Double Angle Quotation Mark#, FGBU #Left-Pointing Double Angle Quotation Mark#GNTs RF ITEhF#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)), E-mail: kv-i@ya.ru; Samarin, S.I.; Uglov, A.S. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU)), E-mail: s.i.samarin@vniitf.ru

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MONTE CARLO METHOD; COMPUTER CALCULATIONS

Combination therapy of recurrent malignant gliomas

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Davydova, O.N.; Vazhenin, A.V.; Sharabura, T.M.; Pimenova, M.M.; Sinitsyn, A.V. (Chelyabinskij Oblastnoj Klinicheskij Onkologicheskij Dispanser, Chelyabinsk (RU); Yuzhno-Ural'skij Gosudarstvennyj Meditsinskij Univ., Chelyabinsk (RU)), E-mail: Olga_davydova_641@mail.ru

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Conformal radiotherapy as a factor influencing overall survival in combination therapy for cerebral malignant glioma

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Pimenova, M.M.; Vazhenin, A.V.; Sharabura, T.M.; Davydova, O.N.; Sinitsyn, A.V. (Chelyabinskij Oblastnoj Klinicheskij Onkologicheskij Dispanser, Chelyabinsk (RU); Yuzhno-Ural'skij Gosudarstvennyj Meditsinskij Univ., Chelyabinsk (RU))

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Konformnaya lucheвая terapiya kak odin iz faktorov, vliyayushchikh na rezul'taty obshchej vyzhivaemosti pri kompleksnom lechenii zlokachestvennykh gliom golovno go mozga

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Modern radiotherapy technology of oropharyngeal cancer

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*Kandoba, I.N.; Koz'min, I.V.; Lozhnikov, A.B. (Inst. Matematiki i Mekhaniki imeni N.N. Krasovskogo UrO
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**Mathematical modeling of high-strain-rate deformation, kinetics of α - ϵ -phase transition, as well as nucleation, growth and recompaction of spall damage for recovered samples of quenched 30KhGSA steel under explosive loading
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Sokolova, N.D.; Kozlov, E.A.; Petrovtsev, A.V.; Shalkovskij, D.M.; Zhilyaeva, N.S.; Kuznetsova, I.I.;

Khardina, L.V. (Rossijskij Federal'nyj Yadernyj Tsentr - VNIITF Tekhnicheskoy Fiziki imeni Akademika E.I.

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fazovogo prevrashcheniya, zarozhdeniya, razvitiya i zalechivaniya otkol'nykh povrezhdenij

v obraztsakh iz zakalennoj stali 30KhGSA pri vzryvnom nagruzenii

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Surov, V.S.; Berezanskij, I.V. (Yuzhno-Ural'skij Gosudarstvennyj Univ. (Natsional'nyj Issledovatel'skij Univ.), Chelyabinsk (RU)), E-mail: surov@math.susu.ac.ru; Stepanenko, E.N. (Chelyabinskij Gosudarstvennyj Univ., Chelyabinsk (RU))

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Artemova, N.A.; Bronina, T.N.; Ushakova, O.V. (Inst. Matematiki i Mekhaniki imeni N.N. Krasovskogo UrO RAN, Ekaterinburg (RU)), E-mail: ana@imm.uran.ru, btn@imm.uran.ru, uov@imm.uran.ru

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Kratova, Yu.V.; Fedorov, A.V.; Khmel', T.A. (Inst. Teoreticheskoy i Prikladnoj Mekhaniki imeni S.A. Khristianovicha SO RAN, Novosibirsk (RU)), E-mail: khmel@itam.nsc.ru

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Chashchin, M.A.; Rubina, L.I.; Ul'yanov, O.N. (Inst. Matematiki i Mekhaniki imeni N.N. Krasovskogo UrO RAN, Ekaterinburg (RU)), E-mail: cma@imm.uran.ru, rli@imm.uran.ru, secretary@imm.uran.ru

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Chebotař, S.V.; Sukhikh, A.S. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Ehksperimental'noj Fiziki, Sarov (RU)), E-mail: cheb@vniief.ru, Stas9ih@mail.ru

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Gadzhiev, A.D.; Chubaresheko, I.S.; Shestakov, A.A. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU))

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Shurina, Eh.P.; Arkhipov, D.A. (Inst. Neftegazovoj Geologii i Geofiziki imeni A.A. Trofimuka SO RAN, Novosibirsk (RU))

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Ehpov, M.I.; Shtabel', N.V. (Inst. Neftegazovoj Geologii i Geofiziki imeni A.A. Trofimuka SO RAN, Novosibirsk (RU)); Shurina, Eh.P.; Mikhajlova, E.I. (Inst. Neftegazovoj Geologii i Geofiziki imeni A.A. Trofimuka SO RAN, Novosibirsk (RU)); Novosibirskij Gosudarstvennyj Tekhnicheskij Univ., Novosibirsk (RU)), E-mail: mik_kat@ngs.ru, shurina@online.sinor.ru

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Yanilkin, Yu.V.; Statsenko, V.P.; Chernyshev, Yu.D.; Toporova, O.O.; Kolobyenin, V.Yu.; Turutina, I.Yu.; Belyaev, S.P.; Dmitrieva, A.S. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Eksperimental'noj Fiziki, Sarov (RU))

Zababakhin scientific talks. XII International conference

Snezhinsk (RU)

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Zababakhinskie nauchnye chteniya. XII Mezhdunarodnaya konferentsiya

Chislennoe modelirovanie trekhmernogo techeniya gaza v rotore model'noj gazovoj tsentrifugi IGUASSU

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(RU, EN)

Rossijskij Federal'nyj Yadernyj Tsentr - Vserossijskij Nauchno-Issledovatel'skij Inst.
Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU)
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GAS CENTRIFUGES; URANIUM HEXAFLUORIDE; GAS FLOW; COMPUTERIZED SIMULATION; NUMERICAL SOLUTION; MATHEMATICAL MODELS; COMPUTER CODES

Code EGIDA for 2D and 3D continuum mechanics simulations

S42;S97

Yanilkin, Yu.V.; Belyaev, S.P.; Kolobyenin, V.Yu. (Rossijskij Federal'nyj Yadernyj Tsentr - VNII Eksperimental'noj Fiziki, Sarov (RU)) (and others)

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Kod EhGIDA dlya modelirovaniya dvumernykh i trekhmernykh zadach mekhaniki sploshnoj sredy

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(RU, EN)

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COMPUTER CALCULATIONS; COMPUTER CODES; NUMERICAL SOLUTION; MECHANICS;
FLUID FLOW; TURBULENT FLOW

A kinetic model of accumulation of radiational defects in pure metals and in Fe-Cr alloy and comparison with cluster dynamics

S36;S97

Romashka, M.Yu.; Yanilkin, A.V. (FGUP Vserossijskij Nauchno-Issledovatel'skij Inst. Avtomatiki imeni N.L. Dukhova (VNIIA), Moscow (RU)), E-mail: michaelromashka@gmail.com

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Kineticheskaya model' nakopleniya radiatsionnykh defektov v chistykh metallakh i splave Fe-Cr i sopostavlenie s klasternoj dinamikoj

p. 341, 341-342

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9 refs.

Rossijskij Federal'nyj Yadernyj Tsentr - Vserossijskij Nauchno-Issledovatel'skij Inst.
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METALS; ALLOYS; IRON BASE ALLOYS; IRRADIATION; NUMERICAL SOLUTION; COMPUTER CALCULATIONS; DIFFERENTIAL EQUATIONS

A model of size distribution of point defect clusters generating in cascades under neutron and ion irradiation and the problem of calculation of cluster diffusion coefficients

S36;S97

Romashka, M.Yu.; Yanilkin, A.V. (FGUP Vserossijskij Nauchno-Issledovatel'skij Inst. Avtomatiki imeni N.L. Dukhova (VNIIA), Moscow (RU)), E-mail: michaelromashka@gmail.com

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Model' raspredeleniya po razmeram klasterov tochechnykh defektov, obrazuyushchikhsya v kaskadakh pri nejtronnom i ionnom obluchenii, i problema opredeleniya koehffitsientov diffuzii klasterov

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2 refs.

Rossijskij Federal'nyj Yadernyj Tsentr - Vserossijskij Nauchno-Issledovatel'skij Inst.
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CALCULATIONS; MOLECULAR DYNAMICS METHOD

Kinetic model of diffusion in alloys on the basis of the Monte-Carlo method

S36;S97

Kuksin, A.Yu.; Khlebnikov, V.A.; Yanilkin, A.V. (Vserossijskij Nauchno-Issledovatel'skij Inst. Avtomatiki imeni N.L. Dukhova, Moscow (RU)), E-mail: breadoff@gmail.com

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Kineticheskaya model' diffuzii v splavakh na osnove metoda Monte-Karlo

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METALS; ALLOYS; BUILDING MATERIALS; IRRADIATION; NUMERICAL SOLUTION;
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Obtaining and using effective point-by-point cross sections in unresolved resonances

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Shmakov, V.M.; Glazkov, E.A.; Cherepanova, E.I.; Orlov, G.V.; Gordejchuk, E.F. (Rossijskij Federal'nyj Yadernyj Tsentr - VNIITF Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU))

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Poluchenie i ispol'zovanie ehffektivnykh potochechnykh sechenij v oblasti nerazreshennykh rezonansov

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2 refs., 2 figs.

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NEUTRONS; NEUTRON TRANSFER; RESONANCE; ELASTIC SCATTERING; CROSS SECTIONS;
NUMERICAL SOLUTION; COMPUTER CALCULATIONS; MONTE CARLO METHOD

Modeling of the shock waves propagation in polymeric materials

S36;S97

Popova, T.V.; Majer, A.E.; Khishchenko, K.V. (FGBOU VPO #Left-Pointing Double Angle Quotation Mark#Chelyabinskij Gosudarstvennyj Univ.#Right-Pointing Double Angle Quotation Mark#, Chelyabinsk (RU)), E-mail: tatyana_maskaeva@mail.ru

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Zababakhinskie nauchnye chteniya. XII Mezhdunarodnaya konferentsiya
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(RU, EN)

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MATERIALS; SHOCK WAVES; DEFORMATION; SIMULATION; COMPUTERIZED SIMULATION;
MATHEMATICAL MODELS; NUMERICAL SOLUTION

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S79

Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU);

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6-10 Feb 2017

Dvenadtsataya ezhegodnaya konferentsiya Fizika plazmy v Solnechnoj sisteme

Dvenadtsataya ezhegodnaya konferentsiya Fizika plazmy v Solnechnoj sisteme. Tezisy

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LEADING ABSTRACT; MEETINGS; SOLAR ACTIVITY; SOLAR CYCLE; SOLAR WIND;
IONOSPHERE; MAGNETIC FIELDS; ELECTRIC FIELDS; MICROWAVE RADIATION; PLASMA;
DISTURBANCES; TURBULENCE

On the XII annual conference #Left-Pointing Double Angle Quotation Mark#Plasma physics in Solar system#Right-Pointing Double Angle Quotation Mark# took place on February 6-10, 2017 in Moscow there were the reports on the problems of the theory and observation of the Sun, solar wind and heliosphere, low-frequency wave processes in cosmic plasma, cosmic weather forecasting and magnetosphere and ionosphere physics, theory of cosmic plasma, cosmic factor effect on earth atmosphere and climate, theory and observation of current sheets, turbulence and chaos

На XII ежегодной конференции #Left-Pointing Double Angle Quotation Mark#Физика плазмы в Солнечной системе#Right-Pointing Double Angle Quotation Mark#, проходившей 6-10 февраля 2017 г. в Москве, были представлены доклады по вопросам теории и наблюдения Солнца, солнечного ветра и гелиосферы, низкочастотных волновых процессов в космической плазме, прогноза космической погоды и физики магнитосферы и ионосферы, теории космической плазмы, воздействия космических факторов на атмосферу и климат земли, теории и наблюдения токовых слоев, турбулентности и хаоса

Generation of bipolar magnetic region and surfacing tube model

S79

Getling, A.V. (NIYaF MGU, Moscow (RU)), e-mail: A.Getling@mail.ru

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Zarozhdenie bipolyarnoj magnitnoj oblasti i model' vsplyvayushchej trubki

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Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow

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2017

325 p.

SUNSPOTS; MAGNETIC FIELDS; MAGNETIC FIELD CONFIGURATIONS; COMPARATIVE EVALUATIONS

Observable asymmetry of solar spots form

S79

Illarionov, E.A.; Tlatov, A.G. (Mekhmat MGU, KalmGU, Ehlista (RU)), e-mail: egor.mypost@gmail.com

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Nablyudaemaya asimmetriya formy solnechnykh pyaten

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325 p.

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Determination of new magnetic fluxes on the Sun according to full vector magnetograms
S79

Golovko, A.A.; Salakhutdinova, I.I. (ISZF SO RAN, Irkutsk (RU)), e-mail: golovko@iszf.irk.ru

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Vyyavlenie novykh magnitnykh potokov na Solntse po magnitogrammam polnogo vektora

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325 p.

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Evolution peculiarities of solar active region NOAA 12242 before flare X1.8 according to RATAN-600 and SDO/HMI data
S79

Abramov-Maksimov, V.E.; Borovik, V.N.; Opejkina, L.V.; Tlatov, A.G.; Yasnov, L.V. (GAO RAN, Sankt-Peterburg (RU)), e-mail: beam@gao.spb.ru

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Osobennosti ehvolyutsii aktivnoj oblasti na Solntse NOAA 12242 pered vspyshkoj Kh1.8 po dannym

RATAN-600 i SDO/HMI

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325 p.

SOLAR ACTIVITY; MICROWAVE RADIATION; MAGNETIC FIELDS; SOLAR FLARES

Unusual sunquake on May 10, 2012 and peculiarities of nonsteady processes in active region with complex topology of magnetic field

S79

Grigor'eva, I.Yu.; Livshits, M.A. (GAO RAN, Sankt-Peterburg (RU); IZMIRAN, Moscow (RU))

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Neobychnoe solntsetryasenie 10 maya 2012 goda i osobennosti nestatsionarnykh protsessov v aktivnoj oblasti so slozhnoj topologiej magnitnogo polya

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325 p.

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Coronal jets and eruptive prominences: what is common?

S79

Filippov, B.P. (Inst. Zemnogo Magnetizma, Ionosfery i Rasprostraneniya Radiovoln im. N.V. Pushkova (IZMIRAN), Moscow, Troitsk (RU)), e-mail: bfilip@izmiran.ru

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2017

325 p.

SOLAR CORONA; SOLAR PROMINENCES; SOLAR FLARES; MAGNETIC FIELD CONFIGURATIONS; INSTABILITY

Formation conditions of inter-spot microwave radiation source

S79

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Observational possibilities of Siberian radioheliograph

S79

Lesovoj, S.V.; Altyntsev, A.T.; Kochanov, A.A.; Grechnev, V.V. (Inst. Solnechno-Zemnoj Fiziki SO RAN, Irkutsk (RU)), e-mail: svlesovoi@gmail.com

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Longitude structure of solar global magnetic field

S79

Gavryuseva, E.A. (IYaI RAN, Moscow (RU)), e-mail: elena.gavryuseva@gmail.com

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Reconstruction of centennial series of filament characteristics according to solar observation in H-alpha line

S79

Tlatova, K.A.; Vasil'eva, V.V.; Tlatov, A.G. (Kislovodskaya Gornaya Astronomicheskaya Stantsiya GAO RAN, Kislovodsk (RU)), e-mail: k.tlatova@mail.ru

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On contribution of large spot groups in formation of quasi-two-year variations of solar activity

S79

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325 p.

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Initial period of coming epoch of #Left-Pointing Double Angle Quotation Mark#decreased#Right-Pointing Double Angle Quotation Mark# solar activity: the current 24th cycle in developing

S79

Ishkov, V.N. (IZMIRAN, Moscow, Troitsk (RU)), e-mail: ishkov@izmiran.ru

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6-10 Feb 2017

Dvenadtsataya ezhegodnaya konferentsiya Fizika plazmy v Solnechnoj sisteme

Nachal'nyj period nastupivshej ehpokhi #Left-Pointing Double Angle Quotation Mark#ponizhennoj#Right-Pointing Double Angle Quotation Mark# solnechnoj aktivnosti: tekushchij 24-j tsikl v razvitii

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SOLAR ACTIVITY; SOLAR CYCLE; SUNSPOTS; MAGNETIC FIELDS; SOLAR FLARES; COMPARATIVE EVALUATIONS

Three-scaled time analysis of reliable Wolf number series and possibility of solar activity long-time forecast

S79

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11-Year periodicity - autowave mechanism of solar energy regulation supporting stability of its temperature

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Kozlov, V.I. (Inst. Kosmofizicheskikh Issledovanij i Aehronomii im. Yu.G. Shafera, SO RAN, Yakutsk (RU)), e-mail: cosmoprognoz@mail.ru

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Long-term variations of solar flares character in the 23th and 24th cycles

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Chertok, I.M.; Belov, A.V. (IZMIRAN, Moscow (RU)), e-mail: ichertok@izmiran.ru

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On the properties of quadratic magnetic helicity

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*Akhmet'ev, P.M.; Smirnov, A.Yu. (IZMIRAN, Moscow (RU)), e-mail: smirnoff.alexandr@gmail.com***The Twelfth annual conference Plasma physics in Solar system**

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Shcheritsa, O.V.; Mazhorova, O.S. (IPM imeni M.V. Keldysha RAN, Moscow (RU)); Getling, A.V. (NIIYaF MGU, Moscow (RU)), e-mail: shchery@mail.ru, shchery@mail.ru

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Solov'ev, A.A. (Glavnaya (Pulkovskaya) Astronomicheskaya Observatoriya RAN, Sankt-Peterburg (RU)), e-mail: solov@gao.spb.ru

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S79

Zhuzhoma, E.V.; Medvedev, V.S. (NIU VShEh, Nizhnij Novgorod (RU)); Dumin, Yu.V. (GAISH MGU, Moscow (RU); IKI RAN, Moscow (RU)), e-mail: zhuzhoma@mail.ru, dumin@yahoo.com

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Electric currents in solar atmosphere

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Fleishman, G.D. (NJIT, Newark (US)), e-mail: gfleishm@njit.edu

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S79

Kliorin, Ya.; Kliorin, N.; Rogachevskij, I. (BGU of the NEGEV, Beer-Sheva (IL)); Safiullin, N.T.; Porshnev, S.V. (UrFU, Ekaterinburg (RU)); Sokolov, D.D. (MGU, Moscow (RU)), e-mail: nat@bgu.ac.il

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Effect of powerful short wave radiation of heating complex EISCAT/HEATING on high-latitude ionosphere F-region

S70;S58

Blagoveshchenskaya, N.F.; Borisova, T.D.; Kalishin, A.S. (Arkticheskij i Antarkticheskij Nauchno-Issledovatel'skij Inst., Sankt-Peterburg (RU)), e-mail: nataly@aari.nw.ru

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Investigation results of lower ionosphere of middle and high latitudes by radio waves resonance scattering on artificial periodic irregularities of ionospheric plasma

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Bakhmet'eva, N.V.; Vyakhirev, V.D.; Kalinina, E.E.; Grach, S.M.; Sergeev, E.N.; Shindin, A.V. (NIRFI NNGU im. N.I. Lobachevskogo, Nizhnij Novgorod (RU)), e-mail: nv_bakhm@nirfi.unn.ru

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Rezul'taty issledovanij nizhnej ionosfery srednikh i vysokikh shirot metodom rezonansnogo rasseyaniya radiovoln na iskusstvennykh periodicheskikh neodnorodnostyakh ionosfernoj plazmy

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**Substorm phenomena and artificial aurora caused by SURA heating facility radio waves
S70;S58**

*Ruzhin, Yu.Ya.; Kuznetsov, V.D. (IZMIRAN, Moscow (RU)); Plastinin, Yu.A.; Karabadzhak, G.F.
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Structure of upper polar ionosphere according to the data of SWARM satellites

S79;S58

*Luk'yanova, R.Yu. (GTs RAN, Moscow (RU); FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii
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Investigation of temperature anomaly dependence of auroral ionosphere dynamo layer on external electric field and electron density

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Timofeev, E.E. (Gosudarstvennyj Univ. Morskogo i Rechnogo Flota imeni admirala S.O. Makarova, Sankt-Peterburg (RU)); Shalimov, S.L. (Inst. Fiziki Zemli im. O.Yu. Shmidta RAN, Moscow (RU)); FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)); Vallinkoski, M.K.; Kangas, J. (Otdel Kosmofiziki Univ. g. Oulu, Oulu (FI))

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Khalipov, V.L. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)); Stepanov, A.E.; Alekseev, V.N.; Ievenko, I.B. (IKFIA SO RAN, Yakutsk (RU)), e-mail: khalipov@iki.rssi.ru

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Satellite radio holography and global ionosphere monitoring

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Pavel'ev, A.G.; Matyugov, S.S.; Yakovlev, O.I.; Pavel'ev, A.A.; Gubenko, V.N. (FIREh im. V.A. Kotel'nikova RAN, Fryazino (RU)); Liu, J. (Center for Space and Remote Sensing Research, National Central Univ., Jhongli, Taiwan (CN)), e-mail: alxndr@mail.ru, yueian@csrsr.ncu.edu.tw

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Gavrik, A.L.; Kopnina, T.F.; Smyslov, A.A.; Bondarenko, M.I.; Gavrik, Yu.A. (FIREh im. V.A. Kotel'nikova RAN, Fryazino (RU)), e-mail: alg248@hotmail.com

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Belakhovskij, V.B.; Sakharov, Ya.A. (Polyarnyj Geofizicheskij Inst., Apatity (RU)); Pilipenko, V.A.; Kozyreva, O.V. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)); Behdli, L. (UNIS, Shpitsbergen (NO)); Samsonov, S.N. (Inst. Kosmofizicheskikh Issledovanij i Aehronomii, Yakutsk (RU)), e-mail: belakhov@mail.ru

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Consequences of sun spots massif revaluation for ionospheric models

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Gulyaeva, T.L. (IZMIRAN, Moscow, Troitsk (RU))

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Kinetic of metastable molecular nitrogen in Titan and Earth atmospheres

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Kirillov, A.S. (Polyarnyj Geofizicheskij Inst., Apatity (RU)), e-mail: kirillov@pgia.ru

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Correlation analysis of data of international experiment #Left-Pointing Double Angle Quotation Mark#Obstanovka (1 stage)#Right-Pointing Double Angle Quotation Mark# on the board of ISS RS**S79***Grushin, V.A.; Klimov, S.I.; Belova, I.Eh. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: vgrushin@iki.rssi.ru (and others)***The Twelfth annual conference Plasma physics in Solar system**

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Korrelyatsionnyj analiz dannykh mezhdunarodnogo ehksperimenta #Left-Pointing Double Angle Quotation

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Effects of tropical cyclones on ionosphere after Pinatubo and Hydson volcanoes eruptions according to Kosmos-1809 satellite data

S70;S58*Kostin, V.M.; Belyaev, G.G.; Trushkina, E.P.; Ovcharenko, O.Ya. (IZMIRAN, Moscow (RU)), e-mail: kostin@izmiran.ru***The Twelfth annual conference Plasma physics in Solar system**

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Investigation of plasma parameters distribution in Earth magnetosphere using isotropic and anisotropic MHD models**S70;S58***Samsonov, A.A. (SPbGU, Sankt-Peterburg (RU)), e-mail: a.samsonov@spbu.ru***The Twelfth annual conference Plasma physics in Solar system**

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S79

Verigin, M.I.; Kotova, G.A.; Bezrukikh, V.V. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: verigin@iki.rssi.ru

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S70;S79

Gordeev, E.I.; Sergeev, V.A. (SPbGU, Sankt-Peterburg (RU)), e-mail: evgeny.i.gordeev@spbu.ru

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S79;S58

Mishin, V.V.; Karavaev, Yu.A. (ISZF SO RAN, Irkutsk (RU)), e-mail: vladm@iszf.irk.ru

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High-latitude geomagnetic effects of intensive magnetic storm on June 22-23, 2015**S79;S58***Gromova, L.I.; Gromov, S.V.; Levitin, A.E.; Dremukhina, L.A. (IZMIRAN, Moscow, Troitsk (RU));**Klejmenova, N.G. (IFZ RAN, Moscow (RU)); FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: gromova@izmiran.ru***The Twelfth annual conference Plasma physics in Solar system**

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Empirical simulation of magnetic field dynamics on geosynchronous orbit**S79***Andreeva, V.A.; Tsyganenko, N.A. (SPbGU, Sankt-Peterburg (RU)), e-mail: varandreeva@gmail.com***The Twelfth annual conference Plasma physics in Solar system**

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Leakage of magnetospheric plasma through magnetopause with relation to analysis of kappa-distribution parameters

S70

Kirpichev, I.P. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)); Antonova, E.E. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna

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Pressure balance in Earth magnetosphere and magnetospheric dynamics

S70;S58

Antonova, E.E. (NIIYaF imeni D.V. Skobel'tsyna MGU imeni M.V. Lomonosova, Moscow (RU); FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)); Vorob'ev, V.G.; Yagodkina, O.I. (Polyarnyj Geofizicheskij Inst. KNTs RAN, Apatity (RU)), e-mail: elizaveta.antonova@gmail.com (and others)

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Ring current dynamics in magnetosphere under the action of solar wind pressure pulses

S79;S58

Kalegaev, V.V.; Vlasova, N.A. (NIIYaF MGU, Moscow (RU)), e-mail: klg@decl.sinp.msu.ru

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Procedure of automatic data processing of cosmic experiments on circular polar orbits and empirical model of high-latitude outer-radiation zone at heights up to 1000 km

S79

Barinova, V.O.; Kalegaev, V.V.; Myagkova, I.N.; Ereemeev, V.E.; Parunakyan, D.A.; Nguen, D.; Barinov, O.G. (NIIYaF MGU, Moscow (RU)), e-mail: alisawera@gmail.com

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Metodiki avtomaticheskoy obrabotki dannykh kosmicheskikh ehksperimentov na krugovykh polyarnykh orbitakh i ehmpiricheskaya model' vysokoshirotnoj granitsy vneshnego radiatsionnogo poyasa Zemli na vysotakh do 1000 km

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Energy characteristics of magnetospheric electrons precipitating into the Earth atmosphere

S79;S58

Bazilevskaya, G.A.; Kalinin, M.S.; Krajnev, M.B.; Makhmutov, V.S.; Novakova, A.R.; Svirzhevskaya, A.K.; Svirzhevskij, N.S.; Stozhkov, Yu.I. (FIAN, Moscow (RU)); Gvozdevskij, B.B. (PGI, Apatity (RU)), e-mail: bazilevs@sci.lebedevi.ru

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Effect of solar wind on plasmopause position according to #Left-Pointing Double Angle Quotation Mark#Interbol#Right-Pointing Double Angle Quotation Mark# project data S79

Kotova, G.A.; Verigin, M.I.; Bezrukikh, V.V. (FGBUN Inst. Kosmicheskikh Issledovaniy Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: kotova@iki.rssi.ru

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Longitudinal dependence of plasmasphere according to Interbol satellites data

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Chugunin, D.V.; Kotova, G.A.; Klimenko, M.V. (IKI RAN, Moscow (RU)), e-mail: dimokch@iki.rssi.ru

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Burinskaya, T.M.; Shevelev, M.M. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: tburinsk@iki.rssi.ru

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End-on asymmetry of mini-magnetosphere induced by Hall effect

S70;S58

Shajkhislamov, I.F.; Posukh, V.G.; Melekhov, A.V.; Zakharov, Yu.P.; Boyarintsev, Eh.L.; Prokopov, P.A.; Berezutskij, A.G.; Miroshnichenko, I.B.; Ponomarenko, A.G. (ILF SO RAN, Novosibirsk (RU)), e-mail: ildars@ngs.ru

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 Flangovaya asimmetriya mini-magnitosfery, vyzvannaya Khollovskim ehffektom
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Rossiyskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)
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Khodachenko, M.L. (Space Research Inst., Austrian Acad. Sci., Graz (AT); Skobeltsyn Inst. of Nuclear Physics, Moscow State Univ., Moscow (RU)); Shaikhislamov, I.F.; Prokopov, P.A. (Inst. of Laser Physics SB RAS, Novosibirsk (RU)); Lammer, H. (Space Research Inst., Austrian Acad. Sci., Graz (AT)); Alexeev, I.I.; Belenkaya, E.S. (Skobeltsyn Inst. of Nuclear Physics, Moscow State Univ., Moscow (RU)), e-mail: maxim.khodachenko@oeaw.ac.at

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Parunakyan, D.A.; Alekseev, I.I.; Belen'kaya, E.S. (NIIYaF MGU, Moscow (RU)); Dyadechkin, S.; Kalio, E.; Alkho, M. (Aalto Univ., Khel'sinki (FI)); Khodachenko, M.L. (NIIYaF MGU, Moscow (RU)); Space Research Inst., Austrian Academy of Sciences, Graz (AT)), e-mail: dp@dp.io

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S79

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S79

Bogod, V.M. (Spetsial'naya Astrofizicheskaya Observatoriya RAN, N.Arkhыз (RU)); Yasnov, L.V.; Stupishina, O.M. (Sankt-Peterburgskij Gosudarstvennyj Univ., Sankt-Peterburg (RU)), e-mail: vbog_spb@mail.ru

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Chernov, G.P.; Fomichev, V.V. (IZMIRAN, Moscow, Troitsk (RU)); Sych, R.A. (Inst. Solnechno-Zemnoj Fiziki, Irkutsk (RU)), e-mail: gchernov@izmiran.ru

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Yakunina, G.V.; Bruevich, E.A. (GAISH, MGU im. M.V. Lomonosova, Moscow (RU)); Kazachevskaya, T.V. (IPG im. E.K. Fedorova, Moscow (RU)), e-mail: yakunina@sai.msu.ru, red-field@yandex.ru, kazachevskaya@mail.ru

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Bogachev, S.A.; Kirichenko, A.S. (FIAN, Moscow (RU)), e-mail: bogachev@lebedev.ru

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Ledentsov, L.S.; Somov, B.V. (GAISh MGU, Moscow (RU)), e-mail: koob@mail.ru

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Mel'nikov, V.F. (GAO RAN, Sankt-Peterburg (RU)); Vu, Zh.; Chen', Ya.; Khuang, G. (Inst. Kosmicheskikh Nauk Shandungskogo Univ., Vehjkhaj (CN)), e-mail: v.melnikov@gao.spb.ru

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Morgachev, A.S.; Tsap, Yu.T.; Smirnova, V.V.; Motorina, G.G.; Kuznetsov, C.A. (NIRFI NNGU im. Lobachevskogo, Nizhnij Novgorod (RU); GAO RAN, Sankt-Peterburg (RU)), e-mail: a.s.morgachev@mail.ru

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Ovchinnikova, E.P.; Charikov, Yu.E.; Vasil'ev, G.I.; Shabalin, A.N. (FTI im. Ioffe RAN, Sankt-Peterburg (RU)), e-mail: elfimovaevgeniya@gmail.com

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Stepanov, A.V. (GAO RAN, Sankt-Peterburg (RU)); Zajtsev, V.V. (IPF RAN, Nizhnij Novgorod (RU)), e-mail: stepanov@gao.spb.ru

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Recording of small solar flares in experiments on #Left-Pointing Double Angle Quotation Mark#Vernov#Right-Pointing Double Angle Quotation Mark# and #Left-Pointing Double Angle Quotation Mark#Lomonosov#Right-Pointing Double Angle Quotation Mark# satellites

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Myagkova, I.N.; Bogomolov, A.V.; Bobrovnikov, S.Yu.; Kalegaev, V.V.; Petrov, V.L.; Yashin, I.V. (MGU imeni M.V. Lomonosova, Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU)); Bogomolov, V.V.; Panasyuk, M.I.; Svertilov, S.I. (MGU imeni M.V. Lomonosova, Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU); MGU imeni M.V. Lomonosova, Fizicheskij Fakul'tet, Moscow (RU)); Shishkova, S.S. (MGU imeni M.V. Lomonosova, Fizicheskij Fakul'tet, Moscow (RU)), e-mail: irina@srd.sinp.msu.ru

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Tsap, Yu.T.; Kopylova, Yu.G. (NII #Left-Pointing Double Angle Quotation Mark#KRAO#Right-Pointing Double Angle Quotation Mark#, pgt. Nauchnyj (RU); GAO RAN, Sankt-Peterburg (RU)), e-mail: yur_crao@mail.ru

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Shain, A.V. (Fizicheskij Fakul'tet NNGU im. N.I. Lobachevskogo, Nizhnij Novgorod (RU)); Morgachev, A.S. (Glavnaya (Pulkovskaya) Astronomicheskaya Observatoriya RAN, Sankt-Peterbur (RU); NIRFI NNGU im. Lobachevskogo, Nizhnij Novgorod (RU)); Mel'nikov, V.F. (Glavnaya (Pulkovskaya) Astronomicheskaya Observatoriya RAN, Sankt-Peterbur (RU)), e-mail: alexandershain.5@gmail.com

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Maevskij, E.V. (Finansovyy Univ. pri Pravitel'stve RF, Moscow (RU); Fizicheskij Fakul'tet MGU, Moscow (RU)); Kislov, R.A.; Petrukovich, A.A. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)); Popov, V.Yu. (Fizicheskij Fakul'tet MGU, Moscow (RU); FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)); Finansovyy Univ. pri

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Borodkova, N.L.; Sapunova, O.V.; Zastenker, G.N.; Ermolaev, Yu.I. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)); Eselevich, V.G. (Inst. Solnechno-Zemnoj Fiziki SO RAN, Irkutsk (RU)), e-mail: nlbor@mail.ru

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Rakhmanova, L.S.; Ryazantseva, M.O.; Borodkova, N.L.; Sapunova, O.V.; Zastenker, G.N. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: rakhlud@gmail.com

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Vajsberg, O.L.; Shuvalov, S.D.; Zelenyj, L.M.; Znobishchev, A.S. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: olegv@iki.rssi.ru

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Struminskij, A.B.; Sadovskij, A.M. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: astrum@iki.rssi.ru; Belov, A.V. (IZMIRAN, Moscow (RU))

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S79

Shugaj, Yu.S. (NIIYaF im. D.V. Skobel'tsyna MGU im. M.V. Lomonosova, Moscow (RU)), e-mail: jshugai@srd.sinp.msu.ru; Slemzin, V.A.; Rod'kin, D.G. (Fizicheskij Inst. im. P.N. Lebedeva (FIAN), Moscow (RU))

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Ermolaev, Yu.I.; Lodkina, I.G.; Ermolaev, M.Yu. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: yermol@iki.rssi.ru

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Examples of eight types of solar wind**S79**

Veselovskij, I.S.; Kaportseva, K.B. (MGU im M.V. Lomonosova, Moscow (RU)), e-mail: kb.kaportceva@physics.msu.ru

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Balyukin, I.I.; Izmodenov, V.V.; Katushkina, O.A.; Aleksashov, D.B. (MGU im. M.V. Lomonosova, Moscow (RU); FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: balyukin.ii@gmail.com

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Krajnev, M.B.; Bazilevskaya, G.A.; Kalinin, M.S.; Svirzhevskaya, A.K.; Svirzhevskij, N.S. (FIAN im. P.N. Lebedeva RAN, Moscow (RU)), e-mail: mkrajnev46@mail.ru

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Bespalov, P.A. (Inst. Prikladnoj Fiziki RAN, Nizhnij Novgorod (RU)), e-mail: peter@appl.sci-nnov.ru;
Mizonova, V.G. (Nizhegorodskij Gosudarstvennyj Tehnicheskij Univ. im. R.E. Alekseeva, Nizhnij Novgorod (RU))

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Artificial whistle

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Mikhajlov, Yu.M. (IZMIRAN, Moscow (RU)), e-mail: yumikh@izmiran.ru

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Onishchenko, O.G.; Pokhotelov, O.A.; Fedun, V.N.; Astaf'eva, N.M. (Inst. Fiziki Zemli RAN, Moscow (RU); FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: onish@ifz.ru

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Petlenko, A.V.; Kopytenko, Yu.A. (SPbF IZMIRAN, Sankt-Peterburg (RU)), e-mail: petlenko.58@mail.ru
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Relativistic electron precipitation and geomagnetic Pc1 pulsations

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Yahnin, A.G.; Yahnina, T.A. (Polar Geophysical Inst., Apatity (RU)), e-mail: ayahnin@gmail.com; Raita, T.; Manninen, J. (Sodankyla Geophysical Observatory, Sodankyla (FI))
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ION WAVES; CYCLOTRON RADIATION; ELECTRON PRECIPITATION; ARCTIC REGIONS;
PULSATIONS; RADIATION BELTS; COMPARATIVE EVALUATIONS; CORRELATIONS;
SATELLITES

The morphological characteristics of energetic proton precipitation equatorward of the isotropy boundary as measured by NOAA POES

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Semenova, N.V.; Yahnina, T.A.; Yahnin, A.G. (Polar Geophysical Inst., Apatity (RU)), e-mail: nadezhda.semenova@gmail.com; Demekhov, A.G. (Polar Geophysical Inst., Apatity (RU); Inst. of Applied Physics, Nizhny Novgorod (RU))

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ION WAVES; CYCLOTRON RADIATION; COMPARATIVE EVALUATIONS

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Popova, T.A.; Yahnin, A.G. (Polar Geophysical Inst., Apatity (RU)); Demekhov, A.G. (Polar Geophysical Inst., Apatity (RU); Inst. of Applied Physics RAS, Nizhny Novgorod (RU)), e-mail: tarkada@yandex.ru

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Whistle waves below frequency of lower hybrid resonance frequency #Em Dash# excitation mechanism and spectral characteristics

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Shklyar, D.R.; Balikhin, M.A. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: david@iki.rssi.ru

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Demekhov, A.G. (Polyarnyj Geofizicheskij Inst., Apatity (RU); Inst. Prikladnoj Fiziki RAN, Nizhnij Novgorod (RU)), e-mail: andrei@appl.sci-nnov.ru

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Pasmanik, D.L.; Demekhov, A.G. (IPF RAN, Nizhnij Novgorod (RU)), e-mail: pdl@aurora.appl.sci-nnov.ru

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Titova, E.E.; Larchenko, A.V. (PGI, Apatity (RU)), e-mail: lena.titova@gmail.com; Demekhov, A.G. (PGI,

Apatity (RU); IPF RAN, Nizhnij Novgorod (RU)); Manninen, Yu. (Geofizicheskaya Observatoriya

Sodankyulya, Sodankyulya (FI)); Pasmannik, D.L. (IPF RAN, Nizhnij Novgorod (RU)); Shklyar, D.R.

(FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU))

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Shklyar, D.R. (FGBUN Inst. Kosmicheskikh Issledovaniy Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: david@iki.rssi.ru

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Ishkov, V.N. (IZMIRAN, Moscow (RU)), e-mail: ishkov@izmiran.ru

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S79

Efitorov, A.O.; Myagkova, I.N.; Dolenko, S.A. (MGU imeni M.V. Lomonosova, Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU)), e-mail: a.efitorov@sinp.msu.ru

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Knyazeva, N.S.; Urt'ev, F.A.; Makarenko, N.G. (GAO RAN, Sankt-Peterburg (RU)), e-mail: iknyazeva@gmail.com

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S79

Tlatov, A.G. (Kislovodskaya Gornaya Astronomicheskaya Stantsiya GAO RAN, Kislovodsk (RU); Kalmytskij Gosudarstvennyj Univ., Ehlista (RU)), e-mail: tlatov@mail.ru; Chernov, Ya.O.; Shramko, A.D. (Kislovodskaya Gornaya Astronomicheskaya Stantsiya GAO RAN, Kislovodsk (RU)); Naga Varun (Kalmytskij Gosudarstvennyj Univ., Ehlista (RU))

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Borog, V.V.; Ampilogov, N.A.; Dmitrieva, A.N.; Kovylyaeva, A.A.; Osetrova, N.V.; Yurin, K.O.

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Krashennikov, I.V.; Pavlova, N.M.; Sitnov, Yu.S. (IZMIRAN, Moscow (RU)), e-mail: krash@izmiran.ru

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S79

Nikolaev, A.V.; Nikolaeva, V.D.; Troshichev, O.A.; Gordeev, E.I.; Makarova, L.N.; N'yuehll, P. (AANII, Sankt-Peterburg (RU)), e-mail: demosfen.spb@gmail.com

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Tsareva, O.O.; Zelenyj, L.M. (GBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: olga8.92@mail.ru; Popov, V.Yu. (Fizicheskij Fakul'tet MGU, Moscow (RU)); GBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU); Finansovyj Univ. pri Pravitel'stve RF, Moscow (RU)); Popova, E.P.; Podzolko, M.V. (NIIYaF MGU, Moscow (RU)); Malova,

Kh.V. (NIYaF MGU, Moscow (RU); GBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU))

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Behaviour of high-energy electrons on geostationary orbits in 1987-1999

S79

Belov, A.V.; Gajdash, S.P.; Abunin, A.A.; Abunina, M.A.; Melkumyan, A.A. (IZMIRAN, Moscow (RU)), e-mail: abunin@izmiran.ru; Kryakunova, O.N. (Inst. Ionosfery, Almaty (KZ))

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Structural correspondence between spatial characteristics of global seismic activity and Earth radiation belt

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Khachikyan, G.Ya. (Inst. Ionosfery, Almaty (KZ)), e-mail: galina.khachikyan@gmail.com

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Krankowski, A.; D#Latin Small Letter A With Ogonek#browski, B.; B#Latin Small Letter L With Stroke#aszkievicz, L.; Cherniak, I.; Hajduk, M.; Zakharenkova, I.; Kotulak, K.; Fron, A. (Space Radio Diagnostics Research Centre (SRRC/UWM), Univ. of Warmia and Mazury in Olsztyn, Olsztyn (PL)); Pulinets, S. (Space Radio Diagnostics Research Centre (SRRC/UWM), Univ. of Warmia and Mazury in Olsztyn, Olsztyn (PL); Space Research Inst., Russian Academy of Sciences, Moscow (RU))

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S79

Troshichev, O.A.; Sormakov, D.A. (Arkticheskij i Antarkticheskij NII, Sankt-Peterburg (RU)), e-mail: olegtro@aari.ru

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Sootnoshenie mezhdru magnitnoj aktivnost'yu v polyarnoj shapke (PC-indeks) i razvitiem magnitnoj buri

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INTERPLANETARY SPACE; COMPARATIVE EVALUATIONS

Influence of magnetic field nonuniformity on electron holes evolution

S70
Kuzichev, I.V.; Vas'ko, I.Yu.; Artem'ev, A.V. (FGBUN Inst. Kosmicheskikh Issledovaniy Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: mar-cuss@yandex.ru

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Vliyanie neodnorodnosti magnitnogo polya na ehvolyutsiyu ehlektronnykh dyrok
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Kinetic model of axially symmetrical magnetic holes of sub-ionic scale

S70
Shustov, P.I.; Artem'ev, A.V.; Vas'ko, I.Yu.; Yushkov, E.V. (FGBUN Inst. Kosmicheskikh Issledovaniy Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: p.shustov@gmail.com

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Analysis of efficiency of charged particles surfotronic acceleration in heliosphere under the action of two electromagnetic waves of comparable amplitudes

S70;S79

Erokhin, N.S.; Loznikov, V.M.; Zol'nikova, N.N.; Mikhajlovskaya, L.A. (FGBUN Inst. Kosmicheskikh Issledovaniy Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: nerokhin@iki.rssi.ru

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Modified method of contour dynamics and vortex structure simulation

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Belashov, V.Yu. (KPFU, Kazan' (RU)), e-mail: vybelashov@yahoo.com; Kharshiladze, O.A. (TGU, Tbilisi (GE)), e-mail: oleg.kharshiladze@gmail.com

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Force and forceless configurations in 3D-kinetic model of asymmetric electron diffusion region and their manifestation in impedance characteristics

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Gubchenko, V.M. (IPF RAN, Nizhnij Novgorod (RU)), e-mail: ua3thw@appl.sci-nnov.ru

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Ryashchikov, D.S.; Molevich, N.E.; Zavershinskij, D.I. (Samarskij Univ., SF FIAN, Samara (RU)), e-mail: ryashchikovd@gmail.com

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Non-one-dimensional nonlinear ion acoustic wave in plasma with account for relativistic effects

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Belashov, V.Yu. (KPFU, Kazan' (RU)), e-mail: vybelashov@yahoo.com

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Dispersion of phase and group velocity of magnetoacoustic waves in plasma with generalized heat-releasing source

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Zavershinskij, D.I.; Molevich, N.E. (Samarskij Univ., SF FIAN, Samara (RU)), e-mail: dimanzav@mail.ru

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Belov, S.A.; Molevich, N.E.; Zavershinskij, D.I. (Samariskij Univ., SF FIAN, Samara (RU)), e-mail: mr_beloff@mail.ru

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Vasil'ev, A.A.; Artem'ev, A.V.; Nejshtadt, A.I. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU))

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Viktorov, M.E.; Shalashov, A.G.; Mansfel'd, D.A.; Golubev, S.V. (IPF RAN, Nizhnij Novgorod (RU)), e-mail: mikhail.viktorov@appl.sci-nnov.ru

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Ajdakina, N.A.; Galka, A.G.; Gundorin, V.I. (IPF RAN, Nizhnij Novgorod (RU)), e-mail: mguschin@appl.sci-nnov.ru (and others)

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Il'yasov, A.A.; Chernyshov, A.A.; Mogilevskij, M.M. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: asjosik@mail.ru

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System of equations for hybrid global numerical model of magnetosphere

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Mingalev, O.V.; Mingalev, I.V.; Mel'nik, M.N. (Polyarnyj Geofizicheskij Inst. KNTs RAN, Apatity (RU)), e-mail: mingalev_o@pgia.ru; Malova, Kh.V. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki im. D.V.

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Simulation of resonance acceleration of protons in magnetic island in heliospheric current sheet accident

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Mingalev, O.V.; Mingalev, I.V.; Mel'nik, M.N.; Setsko, P.V. (Polyarnyj Geofizicheskij Inst. RAN, Apatity (RU)), e-mail: mingalev_o@pgia.ru; Khabarova, O.V. (Inst. Zemnogo Magnetizma, Ionosfery i Rasprostraneniya Radiovoln im. N.V. Pushkova RAN, Moscow (RU); FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)); Malova, Kh.V. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki im. D.V. Skobel'tsyna MGU, Moscow (RU); FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)); Kislov, R.A.; Zelenyj, L.M. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU))

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Mozhenkov, E.R.; Vajsberg, O.L. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: egormoz@mail.ru

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Wave processes near Moon surface at its interaction with Earth magnetosphere tail **S79**

Morozova, T.I.; Popel', S.I. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU); MFTI - GU, Dolgoprudnyj (RU)), e-mail: timoroz@yandex.ru

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Phase displacement of Alfvén waves propagating in reflectionless configurations of magnetized plasma **S70**

Ruderman, M.S. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU); Sheffildskij Univ., Sheffild (GB)), e-mail: m.s.ruderman@sheffield.ac.uk; Petrukhin, N.S. (Natsional'nyj Issledovatel'skij Inst., Vysshaya Shkola Ehkonomiki, Moscow (RU))

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Tuganov, V.F. (IKI RAN, Moscow (RU)), e-mail: a.princet@yandex.ru

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Preliminary morphological analysis of ionospheric effects during solar flares according to the data of EKV ISZF SO RAN radar

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Bergardt, O.I.; Kutelev, K.A. (ISZF SO RAN, Irkutsk (RU)), e-mail: berng@iszf.irk.ru

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Variations of charged and neutral components of cosmic rays in ground-level atmosphere **S79**

Makhmutov, V.S.; Stozhkov, Yu.I.; Rolan, Zh.-P.; Bazilevskaya, G.A.; Filippov, M.V.; Takza, Zh.; Marun, A.; Fernandes, G. (FIAN, Moscow (RU); Univ. Makenzi, San Paulo (BR); Astronomicheskij Kompleks KASLEO, San Khuan (AR)), e-mail: makhmutv@sci.lebedev.ru

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Solar proton events of the 23-24th solar cycles according to the data of Russian cosmic experiments and their effects in Earth ozonosphere **S79**

Myagkova, I.N. (MGU imeni M.V. Lomonosova, Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU)), e-mail: irina@srd.sinp.msu.ru; Krivolutskij, A.A. (Tsentral'naya Aehrologicheskaya Observatoriya, Dolgoprudnyj (RU))

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Impact of precipitating electrons on Earth atmosphere

S79
Mironova, I. (SPbGU, Sankt-Peterburg (RU)), e-mail: i.a.mironova@spbu.ru; Artamonov, A.; Mishev, A. (Space Climate Research Unit, Univ. of Oulu, Oulu (FI)); Makhmutov, V. (Fizicheskij Inst. im. Lebedeva, Moscow (RU))

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Efficiency of nitrogen oxides formation in Earth polar atmosphere caused by solar cosmic rays in the period of proton flares: analysis of satellites observations and results of photochemical simulation

S79
Kukoleva, A.A.; Krivolutskij, A.A.; V'yushkova, T.Yu. (TsAO Rosgidromet, Dolgoprudnyj (RU)), e-mail: kuan-2012@yandex.ru

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Ehffektivnost' obrazovaniya azotnykh okislov v polyarnoj atmosfere Zemli pod vozdejstviem SKL v period protonnykh vspyshek: analiz sputnikovykh nablyudenij i rezul'taty fotokhimicheskogo modelirovaniya

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Measurement of temperature and wind in Earth polar atmosphere after solar proton events (three-dimensional simulation)

S79
Krivolutskij, A.A. (Tsentral'naya Aehrologicheskaya Observatoriya (TsAO) Rosgidrometa, Dolgoprudnyj (RU)), e-mail: Krivolutsky@mail.ru

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S79;S58
Zherebtsov, G.A.; Kovalenko, V.A.; Kirichenko, K.E. (ISZF SO RAN, Irkutsk (RU)), e-mail: vak@iszf.irk.ru

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Rol' solnechnoj aktivnosti v nablyudaemykh izmeneniyakh klimata v XX veke

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Models of Solar ultraviolet radiation for aeronomic calculations

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Nusinov, A.A.; Kazachevskaya, T.V.; Katyushina, V.V. (FGBU #Left-Pointing Double Angle Quotation Mark#IPG#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)), e-mail: nusinov@mail.ru

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Nonlinear spectral analysis of cosmogenic isotope C14 during 12 thousand years, on sudden climatic changes and forecast for future

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Kuznetsova, T.V. (IZMIRAN, Moscow (RU)), e-mail: tvkuz2@yandex.ru

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CORRELATIONS; FORECASTING

Observation of UV-radiation in Antarctic (Novolazarevskaya station) at the stage of the growth stage of the 24th solar cycle

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Shapovalov, S.N.; Troshichev, O.A. (GNTs RF Arkticheskij i Antarkticheskij NII, Sankt-Peterburg (RU)), e-mail: shapovalov@aari.ru

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Change of mesospheric clouds properties caused by solar activity variations

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Mironova, I. (SPbGU, Sankt-Peterburg (RU)), e-mail: i.a.mironova@spbu.ru

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S79

Krivolutskij, A.A.; Cherepanova, L.A.; V'yushkova, T.Yu. (Tsentral'naya Aehrologicheskaya Observatoriya (TsAO) Rosgidrometa, Dolgoprudnyj (RU)), e-mail: Krivolutsky@mail.ru

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The trajectory method of charged particles dynamics description in arbitrary magnetic configurations based on the analysis of angular variables

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Sasunov, Yu.L.; Swarzbauer, G.; Khodachenko, M.L.; Alexeev, I.I.; Belenkaya, E.S.

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Plasma noncontinuous flows near reconnecting current sheet in solar flares

S70;S79

Kolesnikov, N.P.; Bezrodnykh, S.I.; Somov, B.V. (GAISH MGU, Moscow (RU)), e-mail: nick206265@gmail.com

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Razryvnye techeniya plazmy vblizi peresoedinyayushchego tokovogo sloya v solnechnykh vspyshkakh

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Current sheets structure in Mars magnetosphere close tail region according to MAVEN satellite observations

S79

Grigorenko, E.E.; Shuvalov, S.D.; Ermakov, V.N.; Malova, Kh.V.; Popov, V.Yu.; Vajsberg, O.L.; Zelenyj, L.M. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: elenagrigorenko2003@yandex.ru

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Struktura tokovykh sloev v oblasti blizhnego khvosta magnitosfery Marsa po nablyudeniyam sputnika

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Investigation of plasma dynamics in plasmoid-like configurations with shearing component of magnetic field in Earth magnetosphere tail

S70;S79

Malykhin, A.Yu.; Grigorenko, E.E. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: anmaurdreg@gmail.com; Malova, Kh.V. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU); NIIYaF (MGU) im. Skobel'tsyna, Moscow (RU))

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magnitnogo polya v khvoste magnitosfery Zemli

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Longitudinal and transversal currents in current sheets forming in 2D and 3D magnetic configurations**S70**

Frank, A.G.; Satunin, S.N. (IOF RAN, Moscow (RU)), e-mail: annfrank@fpl.gpi.ru

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Vekstein, G. (JBCA, School of Physics and Astronomy, Univ. of Manchester, Manchester (GB)), e-mail:

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S70

Zhukova, E.I.; Grigorenko, E.E. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)); Popov, V.Yu. (Fizicheskij Fakul'tet MGU, Moscow (RU); FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU); Finansovyy Univ. pri Pravitel'stve RF, Moscow (RU)); Malova, Kh.V. (NIIYaF MGU, Moscow (RU); FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU))

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Observation of energetic particles accelerated up to several MeV in the vicinity of reconnecting current sheets in solar wind

S79

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MHD-model of high-latitude current sheet in heliosphere

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Kislov, R.A. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)),

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Intermittency of solar wind plasma flow near interplanetary shock waves

S70;S79

*Ryazantseva, M.O.; Rakhmanova, L.S.; Borodkova, N.L.; Zastenker, G.N. (FGBUN Inst. Kosmicheskikh
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Angle Quotation Mark# (RNTs KI), Moscow (RU)); Shafrankova, Ya.; Nemechek, Z.; Prekh, L.; Pitna, A.; Nemets, F. (Charles Univ. in Prague, Prague (CZ))

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Trukhachev, F.M.; Tomov, A.V. (Belorussko-Rossijskij Univ., Mogilev (BY); Mogilevskij Gosudarstvennyj Univ., Mogilev (BY)), e-mail: ftru@mail.ru

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Makarenko, N.; Knyazeva, I. (GAO RAN, Sankt-Peterburg (RU)), e-mail: ng-makar@mail.ru; Luk'yanov, A. (Yaroslavskij Gosudarstvennyj Univ., Yaroslavl' (RU))

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Filatov, L.V. (Nizhegorodskij Gosudarstvennyj Arkhitekturno-Stroitel'nyj Univ., Nizhnij Novgorod (RU));

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Obridko, V.N.; Shel'ting, B.D. (IZMIRAN, Moscow (RU)), e-mail: obridko@izmiran.ru

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Tsap, Yu.T.; Kopylova, Yu.G. (NII #Left-Pointing Double Angle Quotation Mark#KRAO#Right-Pointing Double Angle Quotation Mark#, Krym, Nauchnyj (RU); GAO RAN, Sankt-Peterburg (RU)), e-mail:

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Shabalin, A.N.; Charikov, Yu.E. (FTI im. A.F. Ioffe RAN, Sankt-Peterburg (RU)), e-mail: taoastronomer@gmail.com; Kuznetsov, S.A. (Glavnaya (Pulkovskaya) Astronomicheskaya Observatoriya RAN, Sankt-Peterburg (RU); NIRFI NNGU im. N.I. Lobachevskogo, Nizhnij Novgorod (RU))

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Ivanov, E.V. (IZMIRAN, Moscow (RU)), e-mail: ivstp@mail.ru

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On the problem of #Left Double Quotation Mark#bright young Sun#Right Double Quotation Mark#

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O probleme #Left Double Quotation Mark#yarkogo molodogo Solntsa#Right Double Quotation Mark#

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SUN; BRIGHTNESS; LUMINOSITY; EARTH PLANET; EVOLUTION; HUBBLE EFFECT;
SIMULATION; CORRECTIONS; COMPARATIVE EVALUATIONS

Determination of total electron content of Mars ionosphere according to the data of MARSIS ground penetrating radar

S79

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PLANETARY IONOSPHERES; SATELLITES; COMPARATIVE EVALUATIONS

Daily variations of ionization trough position in the Northern and Southern hemispheres at low and high solar activity

S79

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SOLAR ACTIVITY; SATELLITES; COMPARATIVE EVALUATIONS

Equatorial plasma #Left-Pointing Double Angle Quotation Mark#bubbles#Right-Pointing Double Angle Quotation Mark#: the transfer mechanism of tidal tropospheric influence

S79;S70

Sidorova, L.N.; Filippov, S.V. (IZMIRAN, Moscow (RU)), e-mail: lsid@izmiran.ru

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Ehkvatorial'nye plazmennye #Left-Pointing Double Angle Quotation Mark#puzyri#Right-Pointing Double
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DISTURBANCES; PLASMA INSTABILITY

Pulsed TEC-anomalies before the earthquake in Chile

S58

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Ishkova, L.M.; Ruzhin, Yu.Ya.; Bershadskeya, I.N. (IZMIRAN, Moscow (RU)), e-mail: ishkova@izmiran.ru

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Three-dimensional numerical simulation of Schumann resonator

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Goncharov, E.S.; Lyakhov, A.N.; Loseva, T.V. (IDG RAN, Moscow (RU)), e-mail: eggoncharov@yandex.ru

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Resonance ULF-absorption in disturbed conditions

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Relaxation processes of excited electron levels of molecular oxygen in upper atmospheres of Earth and Venus

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Antonenko, O.V.; Kirillov, A.S.; Kulikov, Yu.N. (Polyarnyj Geofizicheskij Inst. (PGI), Apatity (RU)), e-mail: antonenko@pgia.ru

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Nelinejnye ehffekty iskazheniya zondiruyushchego signala v zadachakh diagnostiki i kontrolya fiderov radioastronomicheskikh sistem s fazirovannymi antennymi reshetkami

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Superior winter variations of TEC and critical frequency f_{0F2} of ionosphere **S70**

Ruzhin, Yu.Ya.; Vazherkin, V.A.; Panchenko, V.V. (Inst. Zemnogo Magnetizma, Ionosfery i Rasprostraneniya Radiovoln im. N.V. Pushkova RAN (IZMIRAN), Troitsk (RU)), e-mail: ruzhin@izmiran.ru; Smirnov, V.M.; Smirnova, E.V. (Inst. Radiotekhniki i Ehlektroniki im. V.A. Kotel'nikova RAN, Fryazino (RU))

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Day polar substorm in the initial phase of magnetic storm of January 22, 2012 **S79**

Klejmenova, N.G. (IFZ RAN, Moscow (RU); FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: kleimen@ifz.ru; Gromova, L.I.; Gromov, S.V.; Dremukhina, L.A. (IZMIRAN, Moscow (RU)); Zelinskij, N.R.; Malysheva, L.M.; Vasil'eva, N.Eh. (IFZ RAN, Moscow (RU))

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Peculiarities of thermal plasma density distribution in plasmasphere during polarization jet developing in ionosphere

S79

Khalipov, V.L.; Kotova, G.A.; Chugunin, D.V. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: khalipov@iki.rssi.ru

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Substorm injections of plasma flows and generation of irregular geomagnetic pulsations

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Kovrazhkin, R.A.; Glazunov, A.L.; Vladimirova, G.A. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: rkovrazh@iki.rssi.ru; Baishev, D.G. (Inst. Kosmofizicheskikh Issledovanij i Aehronomii SO RAN, Yakutsk (RU))

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Experimental investigations of physical conditions of polarization jet formation

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Khalipov, V.L. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: khalipov@iki.rssi.ru; Stepanov, A.E.; Bondar', E.D. (IKFIA SO RAN, Yakutsk (RU))

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Dehspirak, I.V.; Kozelov, B.V. (Polyarnyj Geofizicheskij Inst. (PGI), Apatity (RU)), e-mail: despirak@gmail.com; Gineva, V. (Inst. Kosmicheskikh Issledovanij i Tekhnologij (IKIT), BAN, Stara Zagora (BG))

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S79

Kalegaev, V.V.; Panasyuk, M.I.; Vlasova, N.A.; Myagkova, I.N.; Bogomolov, A.V. (NIIYaF MGU, Moscow (RU)), e-mail: klg@deci.sinp.msu.ru

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Kozelova, T.V.; Kozelov, B.V. (Polyarnyj Geofizicheskij Inst., Apatity (RU)), e-mail: Boris.Kozelov@gmail.com

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Study of photoemission dependence on potential of spacecraft in magnetosphere on the base of #Left-Pointing Double Angle Quotation Mark#Interball-2#Right-Pointing Double Angle Quotation Mark# satellite measurements

S79

Smirnova, N.F.; Stanev, G. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: nsmirnova@romance.iki.rssi.ru

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Izuchenie zavisimosti fotoehmissii ot potentsiala kosmicheskogo apparata v magnitosfere na osnove izmerenij sputnika #Left-Pointing Double Angle Quotation Mark#Interbol-2#Right-Pointing Double Angle Quotation Mark#

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Dehspirak, I.V.; Lyubchich, A.A. (Polyarnyj Geofizicheskij Inst. (PGI), Apatity (RU)), e-mail: despirak@gmail.com; Klejmenova, N.G. (Inst. Fiziki Zemli (IFZ RAN), Moscow (RU)); Gineva, V. (Inst. Kosmicheskikh Issledovanij i Tekhnologij (IKIT), BAN, Stara Zagora (BG))

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Structures of #Left-Pointing Double Angle Quotation Mark#oblique#Right-Pointing Double Angle Quotation Mark# Alfvén waves in inhomogeneous cold magnetospheric-ionospheric plasma

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Volkov, M.A. (Murmanskij Gosudarstvennyj Tekhnicheskij Univ., Murmansk (RU)), e-mail: volkovma@mstu.edu.ru

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Struktury #Left-Pointing Double Angle Quotation Mark#kosykh#Right-Pointing Double Angle Quotation Mark# al'venovskikh voln v neodnorodnoj kholodnoj magnitosferno-ionosfernoj plazme

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Pressure at magnetopause on far sides of magnetosphere according to the THEMIS satellites data

S79

Znatkova, S.S.; Pulinets, M.S. (NIIYaF MGU, Moscow (RU)), e-mail: svetlana.znatkova@yandex.ru; Antonova, E.E. (NIIYaF MGU, Moscow (RU); FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: elizaveta.antonova@gmail.com; Kirpichev, I.P. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU); NIIYaF MGU, Moscow (RU))

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Davlenie na magnitopauze na dal'nikh flangakh magnitosfery po dannym sputnikov THEMIS

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PLASMA PRESSURE; SOLAR WIND

Simulation of charged particles dynamics in magnetosphere during magnetic storm **S79**

Smolin, S.V. (Sibirskij Federal'nyj Univ., Krasnoyarsk (RU)), e-mail: smolinsv@inbox.ru

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Modelirovanie dinamiki zaryazhennykh chastits v magnitosfere vo vremya magnitnoj buri

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27 August 2001 substorm: pre-onset phenomena, two main onsets, field-aligned current systems, and plasma flow channels in the ionosphere and magnetosphere **S79**

Mishin, V.V.; Mishin, V.M.; Lunyushkin, S.B. (ISTP SB RAS, Irkutsk (RU)), e-mail: vladm@iszf.irk.ru

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Influence of corotating solar wind streams on forming energy spectra of outer-radiation zone electron flows

S79

Bezrodnykh, I.P.; Morozova, E.I.; Petrukovich, A.A. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: morozova.evgeniya2014@yandex.ru; Budyak, M.N.; Semenov, V.T. (OAO #Left-Pointing Double Angle Quotation Mark#Korporatsiya #Left-Pointing Double Angle Quotation Mark#VNIEhM#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Mishin, V.V.; Mishin, V.M.; Lunyushkin, S.B.; Karavaev, Yu.; Kurikalova, M.; Penskikh, Yu. (ISTP SB RAS, Irkutsk (RU)), e-mail: vladm@iszf.irk.ru

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Convection heating of electrons in geomagnetic tail: the role of B_y field

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Artem'ev, A.V.; Lukin, A.S. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: as.lukin.phys@gmail.com

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Change of current systems parameters at appearance of plateau in pressure radial distribution

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Vovchenko, V.V. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: a1246@list.ru; Antonova, E.E. (NIIYaF MGU, Moscow (RU); FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: elizaveta.antonova@gmail.com

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Izmeneniya parametrov tokovykh sistem pri vozniknovenii plato v radial'nom raspredelenii davleniya

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Concentration and temperature of cold plasma along geomagnetic shells near plasmopause according to the results of measurements on Interball-1 satellite

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Bezrukikh, V.V.; Kotova, G.A.; Verigin, M.I. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: vbez@iki.rssi.ru

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**Precipitation of subrelativistic energy electrons near polar boundary of outer-radiation
zone according to the data of experiments on #Left-Pointing Double Angle Quotation
Mark#Vernov#Right-Pointing Double Angle Quotation Mark# and #Left-Pointing Double
Angle Quotation Mark#Lomonosov#Right-Pointing Double Angle Quotation Mark#
satellites**

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*Bogomolov, A.V.; Kalegaev, V.V.; Myagkova, I.N.; Petrov, V.L.; Yashin, I.V. (MGU imeni M.V. Lomonosova,
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Vysypaniya ehlektronov subrelyativistskikh ehnergij vblizi polyarnoj granitsy vneshnego radiatsionnogo
poyasa Zemli po dannym ehksperimentov na sputnikakh #Left-Pointing Double Angle Quotation
Mark#Vernov#Right-Pointing Double Angle Quotation Mark# i #Left-Pointing Double Angle Quotation
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Action of sharp front of solar wind dynamic pressure on high-latitude ionosphere-magnetosphere system: event of June 21-22, 2015

S79

Dremukhina, L.A.; Gromova, L.I.; Gromov, S.V. (IZMIRAN, Moscow (RU)), e-mail: dremukh@izmiran.ru; Klejmenova, N.G. (IFZ RAN, Moscow (RU); FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU))

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Vozdejstvie rezkikh frontov dinamicheskogo davleniya solnechnogo vetra na vysokoshirotnuyu ionosferno-magnitosfernyuyu sistemu: sobytie 21-22 iyunya 2015 g

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S79

Alekseev, I.I.; Parunakyan, D.A.; Belen'kaya, E.S. (NIIYaF MGU, Moscow (RU)); Khodachenko, M. (NIIYaF MGU, Moscow (RU); Space Research Inst., Austrian Acad. Sci., Graz (AT)); Dyadechkin, S.; Kallio, E.; Alho, M. (Aalto Univ., Helsinki (FI))

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Ispol'zovanie magnitnogo polya paraboloidnoj modeli magnitosfery v kachestve nachal'nogo priblizheniya pri gibridnom chislennom modelirovanii vzaimodejstviya solnechnogo vetra s magnitosferoj Merkuriya

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Interaction of solar wind with Moon surface and assistant wave effects

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Buchenkova, M.S. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU); Moskovskij Fiziko-Tekhnicheskij Inst. (Gosudarstvennyj Univ.), Moscow (RU)); Skal'skij, A.A.; Sadovskij, A.M. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: skalsky@iki.rssi.ru, asadovsk@iki.rssi.ru

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FIELDS; COMPARATIVE EVALUATIONS

Solar wind properties deduced from helium abundance

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Safrankova, J.; Durovcova, T.; Nemecek, Z. (Charles Univ., Faculty of Mathematics and Physics, Prague (CZ)), e-mail: jana.safrankova@mff.cuni.cz

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Belen'kaya, E.S. (NIIYaF MGU, Moscow (RU)), e-mail: elena@dec1.sinp.msu.ru

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Formation of ion composition of interplanetary coronal mass ejections in solar corona

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Goryaev, F.F.; Slemzin, V.A.; Rod'kin, D.G. (Fizicheskij Inst. im. P.N. Lebedeva (FIAN), Moscow (RU)), e-mail: goryaev_farid@mail.ru; Pagano, P. (School of Mathematics and Statistics, Univ. of St. Andrews, North Haugh, St. Andrews, Scotland (GB))

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S79

Kalinin, M.S.; Bazilevskaya, G.A.; Krajnev, M.B.; Svirzhevskij, N.S.; Svirzhevskaya, A.K. (FIAN, Moscow (RU)), e-mail: mkalinin@fian.fiandns.mipt.ru

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Minaev, P.D.; Izmodenov, V.V.; Katushkina, O.A. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: p142800@gmail.com

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Okhlopkov, V.P. (NIIYaF MGU, Moscow (RU)), e-mail: ovpetrovich@yandex.ru

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Val'chuk, T.E. (IZMIRAN im. N.V. Pushkova RAN, Moscow (RU)), e-mail: valchuk@izmiran.ru; Kononova, N.K. (IG RAN, Moscow (RU)); Shchev'ev, V.A. (Inst. Vodnykh Problem RAN, Moscow (RU))

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Val'chuk, T.E. (IZMIRAN im. N.V. Pushkova, Moscow (RU)), e-mail: valchuk@izmiran.ru

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6-10 Feb 2017

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2016 god v proyavleniyakh magnitnykh bur' na vetvi spada 24 tsikla solnechnoj aktivnosti

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Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)

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2017

325 p.

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Seismicity of the Caucasus and solar-daily variation of the Earth magnetic field**S58**

Ruzhin, Yu.Ya.; Kanonidi, Kh.D.; Kanonidi, K.Kh. (IZMIRAN im. N.V. Pushkova, Moscow (RU)), e-mail: ruzhin@izmiran.ru

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Sejsmichnost' Kavkaza i solnechno-sutochnaya variatsiya magnitnogo polya Zemli

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Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)

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ELECTRIC CURRENTS; COMPARATIVE EVALUATIONS; CORRELATIONS

Unaccounted factors in the schemes of space weather forecasting

S79;S58

Kuznetsova, T.V. (IZMIRAN, Moscow (RU)), e-mail: tvkuz2@yandex.ru

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Neuchtennye faktory v skhemakh prognoza kosmicheskoy pogody

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(RU)

Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)

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325 p.

GEOMAGNETIC FIELD; SOLAR WIND; EARTH MAGNETOSPHERE; SOLAR CYCLE; SOLAR
ACTIVITY; FORECASTING; ELECTRIC FIELDS; MAGNETIC FIELDS; VARIATIONS;
MATHEMATICAL MODELS; DISTRIBUTION; COMPARATIVE EVALUATIONS

Secular changes of AA-index of geomagnetic activity by the method of searching nonlinear stationary relation between its future and previous values

S79;S58

Laptukhov, V.A.; Laptukhov, A.I. (IZMIRAN, Moscow (RU)), e-mail: a.laptukhov@mail.ru

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Prognoz vekovykh izmenenij aa-indekса geomagnitnoj aktivnosti metodom poiska nelinejnoj stacionarnoj svyazi mezhdugo ego budushchimi i proshlymi znacheniyami

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(RU)
3 refs.

Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)
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COMPARATIVE EVALUATIONS; EARTH MAGNETOSPHERE

Analysis of situations of mutual position of SV Zond and SV Meteor-MP on their orbits and perspectives of using unusual conditions of simultaneous observations of aurorae emissions from different positions of auroral imagers Avrovizor-VIS-MP and Letitsiya S79;S58

Ban'shchikova, M.A.; Chuvashov, I.N. (Nauchno-Issledovatel'skij Inst. Prikladnoj Matematiki i Mekhaniki Tomskogo Gosudarstvennogo Univ. (NII PMM TGU), Tomsk (RU)), e-mail: mba-tomsk@mail.ru, chuvashovin@gmail.com; Kuz'min, A.K. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: alkkuzmin@mail.ru

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Analiz situatsij vzaimnogo raspolozheniya KA Zond i KA Meteor-MP na ikh orbitakh i perspektiva ispol'zovaniya neordinarnykh uslovij odnovremennykh nablyudenij ehmissij polyarnykh siyanij s raznykh pozitsij avroral'nykh imadzherov Avrovizor-VIS-MP i Letitsiya
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Space weather as additional factor of natural catastrophes connected with manifestation of dangerous geological processes
S79;S58

Mal'neva, I.V. (VGUP VSEGINGEO, Moskovskaya Obl., pos. Zelenyj (RU)), e-mail: malnir@mail.ru

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COMPARATIVE EVALUATIONS; CORRELATIONS

Quality control of radio-astronomical forecast solar flare activity

S79

Kurochkin, E.A.; Bogod, V.M.; Shendrik, A.V. (SPbF SAO RAN, Sankt-Peterburg (RU)), e-mail: vbog@sao.ru; Svidskij, P.M. (Inst. Prikladnoj Geofiziki Goskomgidromet, Moscow (RU))

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(RU)

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325 p.

SOLAR ACTIVITY; SOLAR FLARES; FORECASTING; RADIO TELESCOPES; DATA ACQUISITION;
SENSITIVITY; COMPARATIVE EVALUATIONS; ERRORS

Possible solution of problems of chemical composition variations in solar wind plasma, in solar cosmic rays and its significance for power industry of the future

S79

Laptukhov, A.I. (IZMIRAN, Moscow (RU)), e-mail: a.laptukhov@mail.ru

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Vozmozhnoe reshenie problem variatsij khimicheskogo sostava v plazme solnechnogo vetra, v solnechnykh kosmicheskikh luchakh i ego znachenie dlya ehnergetiki budushchego
p. 310
(RU)
2 refs.

Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)
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325 p.

SOLAR RADIATION; COSMIC RADIATION; SOLAR FLARES; SOLAR WIND; PLASMA;
MATHEMATICAL MODELS; ELECTRONS; PROTONS

Calculation of magnification coefficients and trajectories of auroral kilometric radiation propagation in dependence of source parameters

S70

Shevelev, M.M.; Burinskaya, T.M. (FGBUN Inst. Kosmicheskikh Issledovanij Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: mpoSimba@gmail.com

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Vychislenie koehffitsientov usileniya i traektorij rasprostraneniya avroral'nogo kilometrovogo izlucheniya v zavisimosti ot parametrov istochnika

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Rossijskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovanij RAN, Moscow (RU); Rossijskij Fond Fundamental'nykh Issledovanij, Moscow (RU)
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325 p.

AURORAE; LONG WAVE RADIATION; ELECTRONS; INHOMOGENEOUS PLASMA;
TRAJECTORIES; OSCILLATION MODES; MATHEMATICAL MODELS; MAGNETIC FIELDS;
ELECTROMAGNETIC RADIATION; COMPUTER CODES

On joint usage of frequencies of crossover and ionic cut-off of electron whistle waves for assessing cold background plasma ionic composition

S70;S79

Lundin, B.V. (IZMIRAN, Moscow (RU)), e-mail: lundin.bv@gmail.com

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O sovokupnom ispol'zovanii chastot krossovera i ionnoj otsechki ehlektronnykh svistovykh voln dlya otsenki ionnogo sostava kholodnoj fonovoj plazmy

p. 312

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Rossiyskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovaniy RAN, Moscow (RU); Rossiyskij Fond Fundamental'nykh Issledovaniy, Moscow (RU)
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COLD PLASMA; IONIC COMPOSITION; PLASMA WAVES; ELECTRONS; FREQUENCY RANGE; MAGNETIC FIELDS; MATHEMATICAL MODELS; GYROFREQUENCY; LANGMUIR FREQUENCY; POLARIZATION

Experimental investigation of interaction effects of ducts with reduced density in magnetoactive plasma on large-scale #Left-Pointing Double Angle Quotation Mark#Krot#Right-Pointing Double Angle Quotation Mark# facility S70;S79

Ajdakina, N.A.; Gushchin, M.E.; Zudin, I.Yu.; Korobkov, S.V.; Kostrov, A.V.; Strikovskij, A.V. (IPF RAN, Nizhnij Novgorod (RU)), e-mail: aidakina@appl.sci-nnov.ru

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Dvenadtsataya ezhegodnaya konferentsiya Fizika plazmy v Solnechnoj sisteme
Ehksperimental'noe issledovanie ehffektov vzaimodejstviya daktov s ponizhennoj plotnost'yu v magnitoaktivnoj plazme na krupnomasshtabnom stende #Left-Pointing Double Angle Quotation Mark#Krot#Right-Pointing Double Angle Quotation Mark#

p. 313

(RU)

1 ref.

Rossiyskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovaniy RAN, Moscow (RU); Rossiyskij Fond Fundamental'nykh Issledovaniy, Moscow (RU)
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Moscow (RU)
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2017
325 p.

IONOSPHERE; INHOMOGENEOUS PLASMA; WAVEGUIDES; ELECTROMAGNETIC FIELDS; HEATING; ANTENNAS; DISTURBANCES; CORRELATIONS

Numerical simulation of whistle waves propagation in plasma with nonstationary concentration disturbances

S70
Zudin, I.Yu.; Ajdakina, N.A.; Korobkov, S.V. (IPF RAN, Nizhnij Novgorod (RU)), e-mail: zudiniy@appl.sci-nnov.ru

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Chislennoe modelirovanie rasprostraneniya svistovykh voln v plazme s nestatsionarnymi vozmushcheniyami kontsentratsii

p. 314
(RU)
3 refs.

Rossiyskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovaniy RAN, Moscow (RU); Rossiyskij Fond Fundamental'nykh Issledovaniy, Moscow (RU)
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325 p.

CONCENTRATION RATIO; IONIC COMPOSITION; PLASMA WAVES; DISTURBANCES;
WHISTLERS; MATHEMATICAL MODELS; MAXWELL EQUATIONS; POLARIZATION; PLASMA
SIMULATION

Solitons in the Moon surface layer plasma and dust near-Earth plasma with account of adiabatic electron capture

S70
Morozova, T.I.; Kopnin, S.I.; Popel', S.I. (FGBUN Inst. Kosmicheskikh Issledovaniy Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU); MFTI, Dolgoprudnyj (RU)), e-mail: timoroz@yandex.ru
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Solitony v plazme pripoverkhnostnogo sloya Lunny i pylevoj okolozemnoj plazme s uchetom adiabaticheskogo zakhvata ehlektronov
p. 315
(RU)
2 refs.

Rossiyskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovaniy RAN, Moscow (RU); Rossiyskij Fond Fundamental'nykh Issledovaniy, Moscow (RU)
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325 p.

MOON; PLASMA; MESOSPHERE; DUST COLLECTORS; SOLITONS; ELECTRON CAPTURE;
ADIABATIC PROCESSES; MATHEMATICAL MODELS; ELECTRON DENSITY; ION DENSITY;
DISTRIBUTION FUNCTIONS

Influence of total solar radiation flow and volcanic activity on Earth's climate

S79
Biktash, L.Z. (IZMIRAN, Moscow (RU)), e-mail: lilia_biktash@mail.ru

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Vliyanie potoka polnoj solnechnoj radiatsii i vulkanicheskoy aktivnosti na klimat Zemli

p. 320
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Rossiyskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovaniy RAN, Moscow (RU); Rossiyskij Fond Fundamental'nykh Issledovaniy, Moscow (RU)
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325 p.

SOLAR RADIATION; SOLAR ACTIVITY; EARTH PLANET; EARTH ATMOSPHERE; CLIMATES;
VOLCANOES; CORRELATIONS; SOLAR CYCLE; COMPARATIVE EVALUATIONS

Kinetic model of spherical current sheet

S70;S79

Kislov, R.A. (FGBUN Inst. Kosmicheskikh Issledovaniy Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)), e-mail: kr-rk@bk.ru; Malova, Kh.V. (FGBUN Inst. Kosmicheskikh Issledovaniy Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU)); Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, NII Yadernoj Fiziki im. D.V. Skobel'tsyna, Otdel Izlucheniij i Vychislitel'nykh Metodov, Moscow (RU)); Veselovskij, I.S. (Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, NII Yadernoj Fiziki im. D.V. Skobel'tsyna, Otdel Izlucheniij i Vychislitel'nykh Metodov, Moscow (RU))

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Kineticheskaya model' sfericheskogo tokovogo sloja

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325 p.

PLASMA; SPHERES; ELECTRIC CURRENTS; ELECTRIC FIELDS; MATHEMATICAL MODELS

Comparative dynamics of argon and krypton ions in laboratory current sheets

S70

Kirij, N.P.; Markov, V.S.; Frank, A.G.; Vasil'kov, D.G.; Voronova, E.V. (Inst. Obshchej Fiziki im. A.M. Prokhorova RAN, Moscow (RU)), e-mail: kyrie@fpl.gpi.ru

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Sravnitel'naya dinamika ionov argona i kriptona v laboratornykh tokovykh slojakh

p. 323
(RU)
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325 p.

PLASMA; HALL EFFECT; ELECTRIC CURRENTS; ARGON; KRYPTON; HEAVY IONS; SPECTRA;
MAGNETIC FIELD CONFIGURATIONS; COMPARATIVE EVALUATIONS

Ordered and chaotic behaviour of magnetic field lines in the vicinity of simple system of current turns

S79

Lukashenko, A.T. (NIIYaF MGU, Moscow (RU)), e-mail: a_lu@mail.ru; Veselovskij, I.S. (NIIYaF MGU, Moscow (RU); FGBUN Inst. Kosmicheskikh Issledovaniy Rossijskoj Akademii Nauk (IKI RAN), Moscow (RU))

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Uporyadochennoe i khaoticheskoe povedenie linij magnitnogo polya v okrestnosti prostoj sistemy tokovykh vitkov

p. 325

(RU)

2 refs.

Rossiyskaya Akademiya Nauk, Moscow (RU); Inst. Kosmicheskikh Issledovaniy RAN, Moscow (RU); Rossiyskij Fond Fundamental'nykh Issledovaniy, Moscow (RU)
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MAGNETIC FIELD CONFIGURATIONS; MAGNETIC ISLANDS; MATHEMATICAL MODELS;
SIMULATION

Materials of the 10-th anniversary Russian scientific conference Radiation protection and radiation safety in nuclear technologies

S54;S22;S21

GK Rosatom, Moscow (RU); Rossiyskaya Akademiya Nauk, Moscow (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); IBRAEh RAN, Moscow (RU); NOU DPO TsIPK Rosatoma, Obninsk (RU)

Radiation protection and radiation safety in nuclear technologies

Moscow, Obninsk (RU)

22-25 Sep 2015

Radiatsionnaya zashchita i radiatsionnaya bezopasnost' v yadernykh tekhnologiyakh

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2015
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LEADING ABSTRACT; MEETINGS; RADIATION PROTECTION; ENVIRONMENTAL PROTECTION;
REACTOR DECOMMISSIONING; PLANNING; RADIATION MONITORING; RADIOACTIVE
WASTES; EFFICIENCY; RISK ASSESSMENT; FORECASTING

The collection of materials of the 10-th anniversary scientific conference #Left-Pointing Double Angle Quotation Mark#Radiation protection and radiation safety in nuclear technologies#Right-Pointing Double Angle Quotation Mark# (October 22-25, 2015, Moscow, Obninsk) is intended to the scientists and specialists of nuclear science and industry working in the field of radiation safety and environmental protection. In the collection there are the speeches of the top scientists of Russia on the opening of the Conference and reports of plenary session of opening of the Conference as well as the resolution of the Conference which determines research priorities on the problems of the Conference. The Decision of Scientific and Technical Council No 10 of State Atomic Energy Corporation #Left-Pointing Double Angle Quotation Mark#Rosatom#Right-Pointing Double Angle Quotation Mark# on the problem #Left-Pointing Double Angle Quotation Mark#Forecast of science and technology development in the field of ecological, nuclear and radiation safety#Right-Pointing Double Angle Quotation Mark# is present in the Collection

Сборник материалов юбилейной X Российской научной конференции #Left-Pointing Double Angle Quotation Mark#Радиационная защита и радиационная безопасность в ядерных технологиях#Right-Pointing Double Angle Quotation Mark# (22-25 октября 2015 г., Москва, Обнинск) предназначен для ученых и специалистов атомной науки и промышленности, занимающихся вопросами радиационной безопасности и защиты окружающей среды. В сборнике представлены выступления ведущих ученых России на открытии Конференции и доклады пленарного заседания открытия конференции, а также решение Конференции, которое определяет приоритетные направления исследований по тематике Конференции. В сборнике приведено Решение Научно-технического Совета #Numero Sign# 10 Госкорпорации #Left-Pointing Double Angle Quotation Mark#Росатом#Right-Pointing Double Angle Quotation Mark# по вопросу #Left-Pointing Double Angle Quotation Mark#Прогноз развития науки и технологий в сфере обеспечения экологической, ядерной и радиационной безопасности#Right-Pointing Double Angle Quotation Mark#

Results of the Federal target program on nuclear radiation safety 2008-2015 and tasks for the future

S12

Kryukov, O.V.; Abramov, A.A. (GK #Left-Pointing Double Angle Quotation Mark#Rosatom#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

Radiation protection and radiation safety in nuclear technologies

Moscow, Obninsk (RU)

22-25 Sep 2015

Radiatsionnaya zashchita i radiatsionnaya bezopasnost' v yadernykh tekhnologiyakh

Itogi realizatsii FTsP YaRB 2008-2015 i zadachi na budushchee

p. 24-35

(RU)

18 figs., 1 tab.

GK Rosatom, Moscow (RU); Rossijskaya Akademiya Nauk, Moscow (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); IBRAEh RAN, Moscow (RU); NOU DPO TsIPK Rosatoma, Obninsk (RU)

Materials of the 10-th anniversary Russian scientific conference Radiation protection and radiation safety in nuclear technologies

Materialy 10-j yubilejnoj Rossijskoj nauchnoj konferentsii Radiatsionnaya zashchita i radiatsionnaya bezopasnost' v yadernykh tekhnologiyakh

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OOO SAM Poligrafist
2015
142 p.

SPENT FUELS; STORAGE FACILITIES; RADIOACTIVE WASTES; RADIOACTIVE WASTE MANAGEMENT; SPENT FUEL STORAGE; DRY STORAGE; REACTOR DECOMMISSIONING; RADIATION PROTECTION; ENVIRONMENTAL PROTECTION

The main attention in the report is paid to the following questions: spent fuel and radioactive waste management; realization of the first stage of the Unified state system of radioactive waste management; decommissioning of nuclear- and radiation-hazardous objects; utilization of nuclear submarines and radioisotope thermoelectric generators; development of the new Federal target program on nuclear radiation safety - FTP NRS-2 on 2016-2030. It is pointed out that due to the realization of the FTP NRS-1 the crisis in the problems of nuclear legacy has been overcome, the development process on back-end systems has been started, and the FTP NRS-2 will provide systematic solution of legacy problems and stable functioning of the systems of spent fuel and radioactive waste management and decommissioning

Основное внимание в докладе уделено следующим вопросам: обращению с отработавшим ядерным топливом (ОЯТ) и радиоактивными отходами (РАО); реализации первого этапа формирования Единой государственной системы обращения с РАО; выводу из эксплуатации ядерно- и радиационно-опасных объектов; утилизации атомных подводных лодок и радиоизотопных термоэлектрических генераторов; разработке новой Федеральной целевой программы ядерной радиационной безопасности - ФЦП ЯРБ-2 на 2016-2030 гг. Отмечается, что в результате реализации ФЦП ЯРБ-1 кризис в сфере проблем ядерного наследия преодолен, процесс создания систем по завершающим стадиям жизненного цикла запущен, а ФЦП ЯРБ-2 обеспечит системное решение проблем наследия и стабильное функционирование систем обращения с ОЯТ, РАО и вывода из эксплуатации

Research and development in the field of nuclear technology safety and Federal target program on nuclear radiation safety on 2008-2015

S12;S21;S61

Bol'shov, L.A. (IBRAEh RAN, Moscow (RU))

Radiation protection and radiation safety in nuclear technologies

Moscow, Obninsk (RU)

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Radiatsionnaya zashchita i radiatsionnaya bezopasnost' v yadernykh tekhnologiyakh

Nauchnye issledovaniya i razrabotki v oblasti bezopasnosti yadernykh tekhnologij i FTsP YaRB 2008-2015

gg

p. 36-49

(RU)

11 figs., 4 tabs.

GK Rosatom, Moscow (RU); Rossijskaya Akademiya Nauk, Moscow (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); IBRAEh RAN, Moscow (RU); NOU DPO TsIPK Rosatoma, Obninsk (RU)

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142 p.

RADIATION PROTECTION; SPENT FUEL STORAGE; RADIOACTIVE WASTES; RADIOACTIVE WASTE MANAGEMENT; RADIOACTIVE WASTE FACILITIES; COMPUTER CODES; COMPUTERIZED SIMULATION; REACTOR SAFETY; RADIONUCLIDE MIGRATION; RADIOECOLOGY; FORECASTING; REACTOR DECOMMISSIONING; RADIATION MONITORING

Realization of the Federal target program on nuclear radiation safety (FTP NRS) allowed to solve grand challenges: safety was substantiated and more than hundred priority projects were realized safely; new technologies were mastered for calculational maintenance and justification of objects safety, for decommissioning, monitoring and emergency response. Within a framework of FTP NRS-2 complete code system for nuclear legacy must be developed; safety of geological repository and final state of all nuclear legacy facilities must be substantiated. It is pointed out that scientific investigations are allowed to improve economics at the current or increased safety. System analysis of key challenges as the main mechanism of NRS achievement is based on inventory of nuclear- and radiation-hazardous objects and primary registration of radioactive wastes. All critical potential dangerous objects are included within the FTP NRS-2, and technological experience of operations and monitoring and forecasting system realization are worked out. The groundwork for developing strategic plan of nuclear legacy problems solving is built up

Реализация Федеральной целевой программы ядерной радиационной безопасности (ФЦП ЯРБ) позволила решить крупные проблемы: обоснована безопасность и безопасно реализовано более ста первоочередных проектов; освоены новые технологии расчетного сопровождения и обоснования безопасности объектов, работ по выводу из эксплуатации, мониторингу и аварийному реагированию. В рамках ФЦП ЯРБ-2 предстоит разработать полную систему кодов для ядерного наследия; обосновать безопасность пункта захоронения геологического типа и конечного состояния всех объектов наследия. Отмечается, что научные исследования позволяют улучшить экономику при сохранении или повышении безопасности. Системный анализ ключевых проблем как основной механизм достижения ЯРБ опирается на инвентаризацию ядерно- и радиационно опасных объектов и первичную регистрацию радиоактивных отходов. Все критичные по уровню потенциальной опасности объекты включены в ФЦП ЯРБ-2, и наработан технологический опыт ведения работ и реализации системы мониторинга и прогнозирования. Создан задел для разработки стратегического плана решения проблем наследия

Safety assurance at nuclear fuel cycle closure on the FSUE #Left-Pointing Double Angle Quotation Mark#MCC#Right-Pointing Double Angle Quotation Mark#S11;S12

Gavrilov, P.M. (FGUP #Left-Pointing Double Angle Quotation Mark#GKhK#Right-Pointing Double Angle Quotation Mark#, Zheleznogorsk (RU))

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Moscow, Obninsk (RU)

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Obespechenie bezopasnosti pri zamykanii yadernogo toplivnogo tsikla na FGUP #Left-Pointing Double Angle Quotation Mark#GKhK#Right-Pointing Double Angle Quotation Mark#

p. 50-57

(RU)

3 refs., 4 figs.

GK Rosatom, Moscow (RU); Rossijskaya Akademiya Nauk, Moscow (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); IBRAEh RAN, Moscow (RU); NOU DPO TsIPK Rosatoma, Obninsk (RU)

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ООО SAM Poligrafist

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142 p.

FUEL CYCLE; RADIOACTIVE WASTES; SPENT FUELS; RADIOACTIVE WASTE STORAGE; RADIOACTIVE WASTE PROCESSING; MIXED OXIDE FUELS; BN-800 REACTOR; DRY STORAGE; WET STORAGE; RADIATION PROTECTION; STORAGE FACILITIES

On the FSUE #Left-Pointing Double Angle Quotation Mark#MCC#Right-Pointing Double Angle Quotation Mark# industrial infrastructure of closed nuclear fuel cycle is being created, it consists of centralized water-cooled (#Left-Pointing Double Angle Quotation Mark#wet#Right-Pointing Double Angle Quotation Mark#) spent fuel (SF) storage facility; centralized air-cooled (#Left-Pointing Double Angle Quotation Mark#dry#Right-Pointing Double Angle Quotation Mark#) SF storage facility; pilot demonstration facility of SF processing on the base of innovative technologies; MOX-fuel production plant for sodium-cooled fast reactors of BN-800 type. SF reprocessing and nuclear fuel cycle closure will allow to increase the safety of SF management and to decrease by orders the volume of forming SF. All these facilities for purposes of maximum technological and ecological safety, as well as for economical efficiency are located on one site as united technological complex which can provide nuclear energy industry of Russia by fuel by transferring nuclear power engineering into the class safe renewable energy technologies

На ФГУП (#Left-Pointing Double Angle Quotation Mark#ГХК#Right-Pointing Double Angle Quotation Mark# создается промышленная инфраструктура замкнутого ядерного топливного цикла, которая включает в себя: централизованное водоохлаждаемое (#Left-Pointing Double Angle Quotation Mark#мокрое#Right-Pointing Double Angle Quotation Mark#) хранилище отработавшего ядерного топлива (ОЯТ); централизованное воздухоохлаждаемое (#Left-Pointing Double Angle Quotation Mark#сухое#Right-Pointing Double Angle Quotation Mark#) хранилище ОЯТ; опытно-демонстрационный центр по переработке ОЯТ на основе инновационных технологий; производство МОКС-топлива для реакторов на быстрых нейтронах с натриевым теплоносителем типа БН-800. Переработка ОЯТ и замыкание ядерного топливного цикла позволит повысить безопасность обращения с ОЯТ ввиду качественного сокращения объемов отработавшего ядерного топлива и снижения на порядки объемов образующихся РАО. Все эти производства в целях максимальной технологической и экологической безопасности, а также экономической эффективности размещены на одной площадке в едином технологическом комплексе, который может обеспечить топливом атомный энергетический комплекс России, переводя ядерную энергетику в разряд безопасных возобновляемых энерготехнологий

Safety assurance during MR and RFT research reactors decommissioning in NRC #Left-Pointing Double Angle Quotation Mark#Kurchatovskij Institut#Right-Pointing Double Angle Quotation Mark#

S21;S12

Ivanov, O.P.; Kolyadin, V.I.; Lemus, A.V.; Muzrukova, V.D.; Semenov, S.G.; Pavlenko, V.I.; Fadin, S.Yu.; Chesnokov, A.V.; Shisha, A.D. (NITs #Left-Pointing Double Angle Quotation Mark#Kurchatovskij Inst.#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

Radiation protection and radiation safety in nuclear technologies

Moscow, Obninsk (RU)

22-25 Sep 2015

Radiatsionnaya zashchita i radiatsionnaya bezopasnost' v yadernykh tekhnologiyakh

Obespechenie bezopasnosti pri rabotakh po vyvodu iz ehkspluatatsii issledovatel'skikh reaktorov MR i RFT v NITs #Left-Pointing Double Angle Quotation Mark#Kurchatovskij Institut#Right-Pointing Double Angle Quotation Mark#

p. 58-68

(RU)

7 refs., 8 figs., 1 tab.

GK Rosatom, Moscow (RU); Rossijskaya Akademiya Nauk, Moscow (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); IBRAEh RAN, Moscow (RU); NOU DPO TsIPK Rosatoma, Obninsk (RU)

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NRC KURCHATOV INSTITUTE; RESEARCH REACTORS; REACTOR DISMANTLING; REACTOR DECOMMISSIONING; EQUIVALENT RADIATION DOSES; DECONTAMINATION; RADIOACTIVE WASTES; RADIOACTIVE WASTE STORAGE; RADIOACTIVE WASTE PROCESSING; SOLID WASTES; LIQUID WASTES; RADIOACTIVITY

Works on decommissioning of MP and RFT reactors of NRC #Left-Pointing Double Angle Quotation Mark#Kurchatov Institute#Right-Pointing Double Angle Quotation Mark# are described. Dismantling of equipment has allowed to decrease equivalent dose rate in the rooms from 5-20 to 0.01-0.03 mSv/h. Dismantling of equipment and decontamination of reactor buildings have been carried out by remote-controlled mechanisms with the use of the dust control technology to reduce the formation of radioactive aerosols in the air of working rooms. This has greatly reduced the effect of radiation on the personnel and the environment. Low and intermediate level wastes have been packed into a concrete and metal containers to transfer them to long-term storage facilities. High-level wastes have been packed in hermetic casings and placed for aging into high-level waste storage facility of the Centre. As a result of works on MR and RFT reactors decommissioning more than 800 t of equipment has been dismantled and removed for a durable storage and processing, near 3000 m³ of solid and near 650 m³ of liquid radioactive wastes have been disposed. In total within the framework of programme's activities from the territory of NRC #Left-Pointing Double Angle Quotation Mark#Kurchatov Institute#Right-Pointing Double Angle Quotation Mark# more than 3000 m³ of solid and 5000 m³ of liquid radioactive wastes have been removed. The total activity of removed wastes reaches 80 TBq

Описаны работы по выводу из эксплуатации реакторов МР и РФТ НИЦ #Left-Pointing Double Angle Quotation Mark#Курчатовский институт#Right-Pointing Double Angle Quotation Mark#. Демонтаж оборудования позволил снизить мощность эквивалентной дозы в помещениях с 5-20 до 0,01-0,03 мЗв/ч. Демонтаж оборудования и дезактивация помещений реакторов осуществлялась дистанционно управляемыми механизмами с применением технологий подавления пыли для уменьшения образования радиоактивных аэрозолей в воздухе рабочих помещений. Это позволило значительно уменьшить влияние излучения на персонал и окружающую среду. Низко- и среднеактивные отходы были упакованы в бетонные и металлические контейнеры для передачи их в пункты долговременного хранения. Высокоактивные отходы были упакованы в герметичные пеналы и помещены на выдержку в хранилище высокоактивных отходов Центра. В результате работ по выводу из эксплуатации реакторов МР и РФТ демонтировано и удалено на длительное хранение и переработку более 800 т оборудования, удалено около 1100 м³ твердых и около 650 м³ жидких радиоактивных отходов. Всего в рамках всех мероприятий программы с территории НИЦ #Left-Pointing Double Angle Quotation Mark#Курчатовский институт#Right-Pointing Double Angle Quotation Mark# удалено более 3000 м³ твердых и 5000 м³ жидких радиоактивных отходов. Суммарная активность удаленных отходов достигает 80 ТБк

The main results of works on radiation protection and radiation safety within the framework of Federal target program on nuclear radiation safety

S21;S12

Linge, I.I. (IBRAEh RAN, Moscow (RU))

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Moscow, Obninsk (RU)

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Radiatsionnaya zashchita i radiatsionnaya bezopasnost' v yadernykh tekhnologiyakh

Osnovnye itogi rabot po radiatsionnoj zashchite i radiatsionnoj bezopasnosti v ramkakh FTsP YaRB
p. 69-80
(RU)
8 refs., 10 figs., 5 tabs.

GK Rosatom, Moscow (RU); Rossijskaya Akademiya Nauk, Moscow (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); IBRAEh RAN, Moscow (RU); NOU DPO TsIPK Rosatoma, Obninsk (RU)

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RADIATION PROTECTION; RISK ASSESSMENT; RADIOACTIVE WASTES; RADIOACTIVE WASTE DISPOSAL; SAFETY; REACTOR DECOMMISSIONING; RADIATION HAZARDS

Practical build-up on the problems of legacy initiated within the framework of the Federal target program on nuclear and radiation safety on 2008-2015 (Program) mainstreamed solution of challenges in the field of radiation protection and in the field of radiation safety. The most important ones are under consideration. It is noted that just the beginning of the Program realization convincingly showed that in many cases the level of potential risk was underestimated, and that as a result of the implementation of the Program objectives have been achieved. A significant reduction of the potential risks of more than 400 objects have been assured, as well the risk of more than 20 events with catastrophic consequences have been completely eliminated. Realization of the Program clearly identified the problems of radioactive waste disposal. At the present moment there is understanding of the possibilities of their solution, including justification of safety for superlong period and difficulties along the way. Decisions on disposal (preservation) of objects with radioactive wastes are very hard, but they are overdue and necessary. For decision making consolidation of the scientific and technical potential of safety management and control bodies is necessary

Реальное развертывание работ по проблемам наследия, начатое в рамках Федеральной целевой программы #Left-Pointing Double Angle Quotation Mark#Обеспечение ядерной и радиационной безопасности на 2008 год и в период до 2015 года#Right-Pointing Double Angle Quotation Mark# (Программа) обусловило актуализацию решения комплекса задач, находящихся одновременно в сфере радиационной защиты и в сфере радиационной безопасности. Рассмотрены наиболее важные из них. Отмечается, что уже начало реализации Программы убедительно показало, что во многих случаях уровень потенциальных рисков недооценивался, и что в результате реализации Программы поставленные цели достигнуты. Обеспечено существенное снижение потенциальных рисков более чем по 400 объектам, в том числе полностью исключен риск более 20 событий с катастрофическими последствиями. Реализация Программы четко выявила проблемы по захоронению радиоактивных отходов. В данное время существует понимание возможностей их разрешения, в том числе обоснования безопасности на сверхдлительные сроки и трудностей на этом пути. Решения по захоронению (консервации) объектов с радиоактивными отходами очень трудны, но они назрели и необходимы. Для их принятия необходима консолидация научно-технического потенциала органов управления и регулирования безопасности

Scientific foundations of safety and results of the Federal target program on nuclear radiation safety

S21
Khamaza, A.A. (FBU #Left-Pointing Double Angle Quotation Mark#NTTs YaRB#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Moscow, Obninsk (RU)

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Nauchnye osnovy regulirovaniya bezopasnosti i itogi FTsP YaRB

p. 81-89

(RU)

2 figs., 1 tab.

GK Rosatom, Moscow (RU); Rossijskaya Akademiya Nauk, Moscow (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); IBRAEh RAN, Moscow (RU); NOU DPO TsIPK Rosatoma, Obninsk (RU)

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RADIATION PROTECTION; RADIATION HAZARDS; RECOMMENDATIONS; REGULATIONS; SAFETY STANDARDS; RADIOACTIVE WASTES; RADIOACTIVE WASTE FACILITIES; RADIOACTIVE WASTE STORAGE; RISK ASSESSMENT; SAFETY ANALYSIS

One of the basic principles of regulation of nuclear and radiation safety in the field of nuclear energy usage is the principle of proportionality of regulating impact to the hazard level of activity in the field of atomic energy usage. It is of current interest as to legacy objects and to the final stages of the life cycle (management of spent nuclear fuel and radioactive waste, decommissioning). It is pointed out that there is a need to develop a simple and efficient tool capable to solve the problems in the field of radiation safety. Such a tool is a definition of a complex index of the potential hazard of nuclear and radiation-hazardous facilities for the population and the environment. Currently for methodical support of categorizing of facilities for special radioactive waste storage and disposal approaches to assessment of the current level of their safety in the form of relative numerical expression with the use of calculation of the complex index of the potential hazard is developed. The results of effectiveness analysis of those or other activities, including those on the basis of determination of the complex index of the hazard, should be the basis for better management in the field of atomic energy, including legacy objects, and can be used for the purpose of optimization of nuclear safety regulation

Одним из базовых принципов регулирования ядерной и радиационной безопасности в области использования атомной энергии является принцип соразмерности регулирующего воздействия уровню опасности деятельности в области использования атомной энергии. Он актуален и для объектов наследия, и для заключительных стадий жизненного цикла (обращение с отработавшим ядерным топливом, радиоактивными отходами, вывод из эксплуатации). Отмечается необходимость создания простого и эффективного инструмента, способного решать поставленные задачи в области радиационной безопасности. Таким инструментом является определение комплексного показателя потенциальной опасности ядерно- и радиационно-опасных объектов для населения и окружающей среды. В настоящее время в целях методического обеспечения категорирования пунктов размещения и пунктов консервации особых радиоактивных отходов разрабатываются подходы к оценке текущего уровня их безопасности в виде относительного численного выражения с помощью расчета комплексного показателя потенциальной опасности. Результаты анализа эффективности тех или иных мероприятий, в том числе и на основе определения комплексного показателя опасности, должны стать основой совершенствования управления в области использования атомной энергии, включая объекты наследия, и могут быть использованы в целях оптимизации регулирования безопасности

Radiation protection and health of nuclear industry employees and population living in the

regions with radiation hazardous facilities of Russia

S61

Ujba, V.V.; Romanov, V.V. (Federal'noe Mediko-Biologicheskoe Agentstvo, Moscow (RU)); Samojlov, A.S.; Shandala, N.K. (FGUBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))

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Radiatsionnaya zashchita i radiatsionnaya bezopasnost' v yadernykh tekhnologiyakh

Radiatsionnaya zashchita i zdorov'e rabotnikov atomnoj otrasli i naseleniya, prozhivayushchego v rajone raspolozheniya radiatsionno opasnykh ob"ektov Rossii

p. 90-96

(RU)

2 tabs.

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RADIATION PROTECTION; RADIATION PROTECTION LAWS; RECOMMENDATIONS; SAFETY STANDARDS; INDUSTRIAL MEDICINE; OCCUPATIONAL DISEASES; PERSONNEL MONITORING; PERSONNEL; NUCLEAR INDUSTRY; INTERNATIONAL COOPERATION; BIOLOGICAL RADIATION EFFECTS; RADIOBIOLOGY; RISK ASSESSMENT

The Federal Medical-Biological Agency (FMBA) of Russia carries out medical provision of radiation hazardous facilities and population living in the areas of their location. It is noted, that under conditions of procedural, normal operation of atomic industry enterprises stable radiation-hygienic and ecological situation has been achieved. One of the main directions of researches in the field of radiation medicine is the study of the delayed radiation effects of personnel and population, including risk assessment of genetic and oncological effects. This problem is solved by creating medico-dosimetric registers. Over the past 10 years, scientists and specialists of FMBA have developed more than 70 hygienic standards and 150 regulatory and procedural documents in the field of radiation safety of personnel and population, the development of the principal fundamental documents and new editions of domestic #Left Double Quotation Mark#Radiation safety standards#Right Double Quotation Mark# and #Left Double Quotation Mark#Basic Sanitary Rules for Radiation Safety#Right Double Quotation Mark# are planned. International FMBA contacts on the problems of radiation safety control in the context of rehabilitation of radiation-hazardous facilities are considered. The activities of FMBA in the framework of prolongation of the Federal target program on nuclear and radiation safety are discussed

Федеральное медико-биологическое агентство (ФМБА) России осуществляет медицинское обеспечение радиационно опасных производств и населения, проживающего в районах их расположения. Отмечается, что в условиях регламентной, штатной работы предприятий атомной индустрии достигнута устойчивая радиационно-гигиеническая и экологическая обстановка. Одним из основных направлений исследований в области радиационной медицины является изучение отдаленных последствий облучения персонала и населения, включая оценку риска генетических и онкологических эффектов. Эта задача решается путем создания медико-дозиметрических регистров. За последние 10 лет учеными и специалистами ФМБА России было разработано более 70 гигиенических нормативов и 150 нормативно-методических документов в области обеспечения радиационной безопасности персонала и населения, планируется разработка важнейших основополагающих документов и новых редакций отечественных #Left Double Quotation Mark#Норм

радиационной безопасности#Right Double Quotation Mark# и #Left Double Quotation Mark#Основных санитарных правил по обеспечению радиационной безопасности#Right Double Quotation Mark#. Рассмотрены международные контакты ФМБА по проблемам регулирования радиационной безопасности при реабилитации радиационно опасных объектов. Обсуждаются направления деятельности ФМБА в рамках продолжения Федеральной целевой программы по ядерной и радиационной безопасности

Crucial tasks of radiation hygiene in the view of the results of Federal target program on nuclear radiation safety

S61;S63

Romanovich, I.K. (FBUN #Left-Pointing Double Angle Quotation Mark#Sankt-Peterburgskij Nauchno-Issledovatel'skij Inst. Radiatsionnoj Gigieny imeni professora P.V. Ramzaeva#Right-Pointing Double Angle Quotation Mark#, Sankt-Peterburg (RU))

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Aktual'nye zadachi radiatsionnoj gigieny v svete itogov FTsP YaRB

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RADIATION PROTECTION; SAFETY STANDARDS; RADIATION DOSES; HUMAN POPULATIONS; RUSSIAN FEDERATION; RADIATION MONITORING; RADIATION SOURCES; CONTROLLED AREAS; DIAGNOSTIC TECHNIQUES

St. Petersburg research institute of radiation hygiene have been participated in the implementation of the Federal target program on nuclear and radiation safety (FTP NRS) on many directions. One of them is radiation safety of the population in the areas of peaceful nuclear explosions (PNE). Objective data on the radiation situation in the PNE points and radiation doses to population living near the PNE have been obtained. Sanitary rules #Left Double Quotation Mark# Radiation safety of the population living in the areas of peaceful nuclear explosions (1965-1988)#Right Double Quotation Mark# have been developed and accepted. As a result of the FTP NRS-1 implementation the system of radiation-hygienic certification of radiation objects, territories and Russian Federation in the whole, has been created and operates successfully, as well as the Unified state system of monitoring of individual radiation doses of citizens of Russia. Certain places of residence of population on the territory of the Russian Federation with increased and high irradiation levels by natural radiation sources have been revealed. Normative-methodical base for regulating population radiation safety during exposure to natural radiation sources in industrial and utility conditions have been developed and implemented. The influence of various X-ray diagnostic studies on the average radiation dose per one inhabitant of the country has been considered

Санкт-Петербургский научно-исследовательский институт радиационной гигиены участвовал в реализации Федеральной целевой программы по ядерной и радиационной безопасности (ФЦП ЯРБ)

по многим направлениям. Одно из них - обеспечение радиационной безопасности населения в районах проведения мирных ядерных взрывов (МЯВ). Получены объективные данные о радиационной обстановке в местах МЯВ и о дозах облучения населения, проживающего вблизи МЯВ. Разработаны и утверждены санитарные правила #Left-Pointing Double Angle Quotation Mark#Обеспечение радиационной безопасности населения, проживающего в районах проведения (1965-1988 гг.) ядерных взрывов в мирных целях#Right-Pointing Double Angle Quotation Mark#. В результате выполнения ФЦП ЯРБ-1 создана и успешно функционирует система радиационно-гигиенической паспортизации радиационных объектов, территорий и в целом Российской Федерации, а также Единая государственная система контроля индивидуальных доз облучения граждан России. Выявлены отдельные места проживания населения на территории Российской Федерации с повышенными и высокими уровнями облучения природными источниками излучения. Разработана и внедрена нормативно-методическая база для регулирования радиационной безопасности населения при воздействии природных источников излучения в производственных и коммунальных условиях. Рассмотрено влияние различных рентгенодиагностических исследований на среднюю дозу облучения на одного жителя страны

Hydrogeological simulation and its parametric supporting at justification of long-term safety of permanent radioactive waste isolation sites in geological formations

S12;S54

Nikulenkov, A.M.; Sindalovskij, L.N.; Shvarts, A.A.; Rumynin, V.G. (IGEh RAN, SPb Otdelenie, Sankt-Peterburg (RU); Inst. Nauk o Zemle SPbGU, Sankt-Peterburg (RU))

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Gidrogeologicheskoe modelirovanie i ego parametricheskoe obespechenie pri obosnovanii dolgovremennoj bezopasnosti punktov okonchatel'noj izolyatsii RAO v geologicheskikh formatsiyakh

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RADIOACTIVE WASTES; RADIOACTIVE WASTE DISPOSAL; NUCLEAR WASTE POLICY ACTS; RADIOACTIVE WASTE FACILITIES; RADIONUCLIDE MIGRATION; GRANITES; GNEISSES; GEOLOGY; RADIATION PROTECTION; SAFETY; UNDERGROUND DISPOSAL; UNDERGROUND FACILITIES; COMPUTERIZED SIMULATION; MATHEMATICAL MODELS; GROUND WATER; ACCURACY

Mining-and-geological, engineering-geological and hydrogeological problems of safe isolation of radioactive wastes (RAW), namely, the prediction of radiation effects on groundwater and related media in the areas the projected disposal facilities (final isolation) of RAW are under consideration. Two rock units which are the most promising for developing regional RAW disposal facilities - argillaceous (Vendian clays of Sosnovobor district of Leningrad region) and crystalline rocks (granite-gneiss massif in safety of these objects on the basis of diverse geotechnical and hydrogeological studies is given. Preliminary analysis indicates that there

are no factors which are unfavourable from positions of justification of the long-term safety of these objects. It is pointed out that there is a need to further study the geological-and-hydrogeological conditions, mechanisms and parameters controlling the radionuclide migration in the rock massif, as well as the development of the mathematical apparatus to improve the reliability of this conclusion

Рассматриваются горно-геологические, инженерно-геологические и гидрогеологические проблемы безопасной изоляции радиоактивных отходов (РАО), а именно, прогнозирование радиационного воздействия на подземные воды и смежные среды в районах расположения проектируемых пунктов захоронения (окончательной изоляции) РАО. Обсуждаются два комплекса пород, наиболее перспективных для создания региональных пунктов захоронения РАО - глинистые (вендские глины Сосновоборского района Ленинградской области) и кристаллические породы (гранито-гнейсовый массив в Красноярском крае). Дается обоснование долговременной безопасности этих объектов на основе разноплановых инженерно-геологических и гидрогеологических исследований. Предварительный анализ указывает на отсутствие факторов, являющихся неблагоприятными с позиций обоснования долговременной безопасности этих объектов. Отмечается необходимость дальнейшего изучения геолого-гидрогеологических условий, механизмов и параметров, контролирующих перенос радионуклидов в массиве горных пород, а также развитие математического аппарата для повышения достоверности данного вывода

Radioecology and problems of radiation safety: state-of-the-art and crucial tasks

S54

Aleksakhin, R.M. (VNIIRAEh, Obninsk (RU))

Radiation protection and radiation safety in nuclear technologies

Moscow, Obninsk (RU)

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Radioekologiya i voprosy radiatsionnoj bezopasnosti: sovremennoe sostoyanie i aktual'nye zadachi

p. 122-125

(RU)

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RADIOECOLOGY; RADIONUCLIDE MIGRATION; ENVIRONMENT; RADIATION PROTECTION; RADIOACTIVE WASTES; SPENT FUELS; RADIOACTIVE WASTE MANAGEMENT; REACTOR DECOMMISSIONING; FAST REACTORS; FUEL CYCLE; RISK ASSESSMENT; RADIATION DOSES; REMEDIAL ACTION; ECOSYSTEMS; ACCIDENTS

Radioecology studies regularities of radionuclide migration in the environment and the action of ionizing radiations on living organisms in their ecosystems (biota). In the applied aspect radioecology solves the crucial tasks associated with ensuring ecological consistency and radiation safety of the biota in various situations of nuclear energy usage. The problems of radioactive wastes and spent nuclear fuel management and radioecological aspects of accidents with environmental contamination (consequences and countermeasures) are under consideration. So-called #Left-Pointing Double Angle Quotation Mark#deferred problems of nuclear legacy#Right-Pointing Double Angle Quotation Mark# and questions of nuclear facilities decommissioning are discussed. The development of energy production using fast reactors and

closure of the nuclear fuel cycle have undeniable practical interest in solution of radioactive wastes and spent nuclear fuel problem. The obligation of analysis of the design basis and beyond-the-design basis accidents is underlined. It is pointed out that there is a necessity to harmonize the permissible dose effects on biota and humans according to a single dosimetric scale

Радиоэкология изучает закономерности миграции радионуклидов в природной среде и действия ионизирующих излучений на живые организмы в среде их обитания (биоту). В прикладном аспекте радиоэкология решает актуальные задачи, связанные с обеспечением экологической состоятельности и радиационной безопасности биоты в различных ситуациях при использовании ядерной энергии. Рассмотрены вопросы обращения с радиоактивными отходами и отработавшим ядерным топливом и радиоэкологические аспекты аварий с выбросом радиоактивных веществ в окружающую среду (последствия и контрмеры). Обсуждаются так называемые #Left-Pointing Double Angle Quotation Mark#отложенные проблемы ядерного наследия#Right-Pointing Double Angle Quotation Mark# и вопросы снятия с эксплуатации ядерных объектов. В решении проблемы радиоактивных отходов и отработавшего ядерного топлива несомненный практический интерес представляет развитие энергопроизводства с использованием быстрых реакторов и замыкание ядерного топливного цикла. Подчеркивается обязательность анализа последствий проектных и запроектных аварий. Отмечается необходимость гармонизации допустимых дозовых воздействий на биоту и человека на единой дозиметрической линейке

Radiation emergencies. Experience in monitoring, forecasting and scientific-technical support of response

S21;S22;S54

Arutyunyan, R.V. (IBRAEh RAN, Moscow (RU))

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Chrezvychajnye situatsii radiatsionnogo kharaktera. Opyt monitoringa, prognozirovaniya i nauchno-tekhnicheskoy podderzhki reagirovaniya

p. 126-136

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4 figs.

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RADIATION ACCIDENTS; RADIATION MONITORING; ENVIRONMENTAL PROTECTION; HUMAN POPULATIONS; SOCIO-ECONOMIC FACTORS; LOCAL GOVERNMENT; DECISION MAKING; RADIATION PROTECTION; FORECASTING; RISK ASSESSMENT; COMPUTER CODES; EMERGENCY PLANS

The experience of previous radiation accidents shows that the vast majority of the socio-economic disbenefit related to inadequate response and deficiency of efficient infrastructure providing local authorities by operational and skilled support when making decisions on intervention measures - the protection of population and territories. The main directions and achievements of the Federal target program on nuclear

radiation safety on 2008-2015 are given. The activities of the territorial systems of radiation monitoring and emergency response and hardware and software complexes for evaluating, environmental forecasting and developing recommendations on radiation incidents and accidents response are under consideration. The system of scientific and technical support on radiation emergency response organized in Russia at present in practice has shown high operational efficiency, reliability of the predictive estimates and efficiency of the recommendations on the protection of population and territories (an example of this is the response to the accident at Fukushima-1 in 2011 and radiation incident in town of Elektrostal' in 2013)

Опыт прошлых радиационных аварий показывает, что подавляющая часть социально-экономического ущерба связана с неадекватным реагированием и отсутствием эффективной инфраструктуры, обеспечивающей территориальные органы управления оперативной и квалифицированной поддержкой при принятии решений по мерам вмешательства - защите населения и территорий. Приведены основные направления работ и достигнутые результаты федеральной целевой программы по ядерной и радиационной безопасности на 2008-2015 гг. Рассмотрена деятельность территориальных систем радиационного мониторинга и аварийного реагирования и программно-технические комплексы для задач оценки, прогнозирования последствий и разработки рекомендаций по мерам реагирования на радиационные инциденты и аварии. Выстроенная в России в настоящее время система научно-технической поддержки при реагировании на радиационные чрезвычайные ситуации на практике показала высокую оперативность, достоверность прогнозных оценок и эффективность рекомендаций по защите населения и территорий (пример тому - реагирование на аварию на АЭС Фукусима-1 в 2011 г. и радиационный инцидент в г. Электросталь в 2013 г.)

Decision of Scientific and Technical Council No 10 of the State Atomic Energy Corporation #Left-Pointing Double Angle Quotation Mark#Rosatom#Right-Pointing Double Angle Quotation Mark# #Left-Pointing Double Angle Quotation Mark#Ecological, nuclear and radiation safety#Right-Pointing Double Angle Quotation Mark# on the question #Left-Pointing Double Angle Quotation Mark#Forecast of science and technology development in the field of ecological, nuclear and radiation safety#Right-Pointing Double Angle Quotation Mark#

S54;S22;S21

Anon

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Reshenie NTS #Numero Sign# 10 Goskorporatsii #Left-Pointing Double Angle Quotation

Mark#Rosatom#Right-Pointing Double Angle Quotation Mark# #Left-Pointing Double Angle Quotation

Mark#Ehkologicheskaya, yadernaya i radiatsionnaya bezopasnost'#Right-Pointing Double Angle Quotation

Mark# po voprosu #Left-Pointing Double Angle Quotation Mark#Prognoz razvitiya nauki i tekhnologij v

sfere obespecheniya ehkologicheskoy, yadernoy i radiatsionnoj bezopasnosti#Right-Pointing Double Angle

Quotation Mark#

p. 138-140

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The thematic forecasts on nuclear, radiation and environmental safety are approved. It is noted that there is a need for monitoring normative legal base in the field of environmental safety in the light of the changes coming in force during the period 2016-2020. The works on NPP power units decommissioning and scientific substantiation of safety of objects created for the first time are considered as the most prospective directions of increasing the implementation efficiency of the strategy of State Corporation #Left-Pointing Double Angle Quotation Mark#Rosatom#Right-Pointing Double Angle Quotation Mark# in the area of nuclear, radiation and environmental safety

Одобрены тематические прогнозы по ядерной, радиационной и экологической безопасности. Отмечается необходимость мониторинга нормативно-правовой базы в области экологической безопасности с учетом изменений, вступающих в силу в период 2016-2020 годов. В качестве наиболее перспективного направления повышения эффективности реализации стратегии Госкорпорации #Left-Pointing Double Angle Quotation Mark#Росатом#Right-Pointing Double Angle Quotation Mark# в области обеспечения ядерной, радиационной и экологической безопасности считать работы по выводу из эксплуатации энергоблоков АЭС и научное обоснование безопасности впервые создаваемых объектов

Summaries of reports of XLV International Tulinov conference on physics of interactions of charged particles with crystals

S75;S36;S46

Panasyuk, M.I. (ed.)

Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, Moscow (RU)

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LEADING ABSTRACT; MEETINGS; CRYSTAL STRUCTURE; CHANNELING; SPUTTERING; ION BEAMS; POSITRON BEAMS; ELECTRON BEAMS; SCATTERING; SURFACE PROPERTIES

Summaries of reports of XLV International Tulinov conference on physics of interactions of charged particles with crystals are presented. The recent results of investigations of in the range of physics of orientation effects and electron and positron radiation in solids are discussed. The problems of scattering, sputtering emission of secondary particles are considered. The issues of modification and analysis of surface by means of charged particle beams are given special attention

Представлены тезисы докладов XLV Тулиновской конференции по физике взаимодействия заряженных частиц с кристаллами. Представлены последние результаты исследований в области физики ориентационных эффектов и излучения электронов и позитронов в твердом теле. Рассмотрены вопросы рассеяния, распыления, эмиссии вторичных частиц. Особое внимание уделено проблемам модификации и анализу поверхности с применением пучков заряженных частиц

Wave of slow nuclear combustion in fast neutron reactors

S21

Fomin, S.P.; Shul'ga, N.F. (NNTs KhFTI, Khar'kov (UA)); KhNU im. V.N. Krazina, Khar'kov (UA)); Mel'nik, Yu.P.; Pilipenko, V.V.; Fomin, A.S. (NNTs KhFTI, Khar'kov (UA))

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Volna medlennogo yadernogo gorenija v reaktore na bystrykh nejtronakh

p. 3

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FAST REACTORS; TRAVELLING WAVES; COMBUSTION WAVES; REACTOR SAFETY; NUCLEAR FUELS; SUSTAINABLE DEVELOPMENT

Okorokov effect - coherent excitation of fast multicharged ions: 50 years of researches

S75

Pivovarov, Yu.L. (Natsional'nyj Issledovatel'skij Tomskij Politekhnicheskij Univ., Tomsk (RU))

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Ehffekt Okorokova #En Dash# kogerentnoe vozvuzhdenie bystrykh mnogozaryadnykh ionov v kristallakh: 50 let issledovanij

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Research of electron transmission through dielectric tubes

S75

Petukhov, V.P. (NIIYaF MGU, Moscow (RU)); Petukhov, M.V. (IP, Moscow (RU))

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Issledovanie prokhozheniya ehlektronov cherez dielektricheskie trubki

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Radiation of channeled relativistic heavy ions in optical range

S75

Bogdanov, O.V.; Pivovarov, Yu.L.; Fiks, E.I. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU))

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Izluchenie kanalirovannykh relyativistskikh tyazhelykh ionov v opticheskom diapazone

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DOPPLER EFFECT; ANGULAR DISTRIBUTION

Quasi-classical approach to interpretation of Barkash effect

S74

Erokhin, K.M. (FGBOU #Left-Pointing Double Angle Quotation Mark#MGIU#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Kalashnikov, N.P. (Natsional'nyj Issledovatel'skij Yadernyj Univ. #Left-Pointing Double Angle Quotation Mark#MIFI#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Kvaziklassicheskij podkhod k interpretatsii ehffekta Barkasha

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Inelastic of energy losses of ions at charge-exchange process

S74

Belkova, Yu.A.; Novikov, N.V.; Teplova, Ya.A. (NIIYaF MGU, Moscow (RU))

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Neuprugie poteri ehnergii ionov v protsesse perezaryadki

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Model of long-range action effect

S75

Levshunova, V.L.; Tetel'baum, D.I. (Nizhegorodskij Gosudarstvennyj Univ. im. N.I. Lobachevskogo, Nizhnij Novgorod (RU)); Pokhil, G.P. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V. Skobel'tsyna, MGU imeni M.V. Lomonosova, Moscow (RU))

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Nanoacceleration of particles in interatomic potential well and features of reactions with their participation at shaping of coherent correlated state

S75

Vysotskij, V.I.; Vysotskij, M.V. (Kievskij Univ. im. T. Shevchenko, Kiev (UA))

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Interference effects in ionization losses of electro-positron pair on large distances from point of it generation

S72;S75

Trofimenko, S.V.; Shul'ga, N.F. (Inst. Teoreticheskoy Fiziki im. A.I. Akhiezer NNTs KhFTI, Khar'kov (UA); Khar'kovskij Natsional'nyj Univ. im. V.N. Karazina, Khar'kov (UA))

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Interferentsionnye ehffekty v ionizatsionnykh poteryakh ehlektron-pozitronnoj pary na bol'shikh rasstoyaniyakh ot tochki ee rozhdeniya

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Experimental study of possibility of contactless interaction of electron beams with

structured surfaces**S75**

Vokhmyanina, K.A.; Levina, V.S.; Kishchin, I.A.; Kubankin, A.S.; Nazhmudinov, R.M.; Olejnik, A.N.; Sotnikov, A.V. (Lab. Radiatsionnoj Fiziki, NIU #Left-Pointing Double Angle Quotation Mark#BelGU#Right-Pointing Double Angle Quotation Mark#, Belgorod (RU)); Pokhil, G.P. (NIIYaF im. D.V. Skobel'tsyna, MGU im. M.V. Lomonosova, Moscow (RU))

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Ehksperimental'noe issledovanie vozmozhnosti beskontaktnogo vzaimodejstviya puchkov ehlektronov so strukturirovannymi poverkhnostyami

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Transmission of 10 keV electrons through glass macrocapillarities of conic shape**S75**

Vokhmyanina, K.A.; Levina, V.S.; Kishchin, I.A.; Kubankin, A.S.; Nazhmudinov, R.M.; Olejnik, A.N.; Sotnikov, A.V. (Lab. Radiatsionnoj Fiziki, NIU #Left-Pointing Double Angle Quotation Mark#BelGU#Right-Pointing Double Angle Quotation Mark#, Belgorod (RU)); Pokhil, G.P. (NIIYaF im. D.V. Skobel'tsyna, MGU im. M.V. Lomonosova, Moscow (RU))

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Prokhozhdenie ehlektronov s ehnergiej 10 keV cherez steklyannye makrokapillyary konicheskoj formy

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EXPERIMENTAL DATA

Stopping processes of low-energy electron in heavy high-filled polymer composite

S36
Pavlenko, V.I.; Edamenko, O.D.; Cherkashina, N.I. (Belgorodskij Gosudarstvennyj Tekhnologicheskij Univ. im. V.G. Shukhova, Belgorod (RU)); Noskov, A.V. (Belgorodskij Gosudarstvennyj Natsional'nyj Issledovatel'skij Univ., Belgorod (RU))

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Protsessy tormozheniya nizkoenergeticheskogo ehlektrona v tyazhelom vysokonapolnennom polimernom kompozite

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Structure of eigenfunctions of electron in quantum theory of axial channeling

S75
Shul'ga, N.F. (ITF im. A.I. Akhiezer NNTs KhFTI, Khar'kov (UA)); Syshchenko, V.V.; Tarnovskij, A.I. (NIU #Left-Pointing Double Angle Quotation Mark#BelGU#Right-Pointing Double Angle Quotation Mark#, Belgorod (RU)); Isupov, A.Yu. (LFVEh OIYaI, Dubna (XJ))

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Struktura sobstvennykh funktsij ehlektrona v kvantovoj teorii aksial'nogo kanalirovaniya

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Features of motion of charged quasi-particle spin in crystals

S75

Silenko, A.Ya. (Ob''edinennyj Inst. Yadernykh Issledovanij, Dubna (XJ); NIU Inst. Yadernykh Problem, Belorusskij Gosudarstvennyj Univ., Minsk (BY))

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Simulation of relativistic electron deflection by curved silicon crystal

S75

Koshcheev, V.P. (NIU MAI, Filial #Left-Pointing Double Angle Quotation Mark#Strela#Right-Pointing Double Angle Quotation Mark#, Zhukovskij, Moskovskaya Obl. (RU)); Shtanov, Yu.N. (Surgutskij Inst. Nefti i Gaza (Filial) FGBOU VPO #Left-Pointing Double Angle Quotation Mark#TyumGNGU#Right-Pointing Double Angle Quotation Mark#, Surgut (RU)); Morgun, D.A.; Panina, T.A. (GBOU VPO #Left-Pointing Double Angle Quotation Mark#Surgutskij Gosudarstvennyj Univ. KhMAO-Yugry#Right-Pointing Double Angle Quotation Mark#, Surgut (RU))

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Modelirovanie protsessa otkloneniya relyativistskikh ehlektronov izognutym kristallom kremniya
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Determination of characteristics of spectra of neutron scattering on tungsten by means of wavelets

S75

Goroshko, M.A.; Stepanov, S.E. (KF FGBOU VPO #Left-Pointing Double Angle Quotation Mark#MGTU im. N.Eh. Baumana#Right-Pointing Double Angle Quotation Mark#, Kaluga (RU))

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Opredelenie kharakteristik spektrov rasseyaniya nejtronov na vol'frame s ispol'zovaniem vejvletov

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Effect of crystal temperature on parameters of electromagnetic shower

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Baskov, V.A. (Fizicheskij Inst. im. P.N. Lebedeva RAN, Moscow (RU))

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Belkova, Yu.A.; Teplova, Ya.A. (NIIYaF MGU, Moscow (RU))

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Kalashnikov, N.P. (Natsional'nyj Issledovatel'skij Yadernyj Univ. #Left-Pointing Double Angle Quotation Mark#MIFI#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Novikov, N.V.; Teplova, Ya.A. (NIIYaF MGU, Moscow (RU))

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Avakyan, L.A.; Zhilina, T.I.; Malyshevskij, V.S.; Fomin, G.V. (Yuzhnyj Federal'nyj Univ., Rostov-na-Donu (RU))

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Aleksandrov, V.A.; Sabirov, A.S. (Chuvashskij Gosudarstvennyj Univ. imeni I.N. Ul'yanova, Cheboksary (RU))

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Filippov, G.M. (ChPI(F) MG MU, Cheboksary (RU)); Sabirov, A.S. (Chuvashskij Gosudarstvennyj Univ. imeni I.N. Ul'yanova, Cheboksary (RU))

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Maksyuta, N.V.; Vysotskij, V.I.; Efimenko, S.V. (Kievskij Natsional'nyj Univ. imeni Tarasa Shevchenko, Kiev (UA))

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Kirillin, I.V. (ITF NNTs KhFTI, Khar'kov (UA)); Shul'ga, N.F. (ITF NNTs KhFTI, Khar'kov (UA)); KhNU im. V.N. Karazina, Khar'kov (UA))

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izognutym kristallom

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S75

Shemukhin, A.A.; Makunin, A.V. (NIIYaF MGU, Moscow (RU)); Samigullin, R.Sh.; Muratova, E.N.

(SPbGEhTU #Left-Pointing Double Angle Quotation Mark#LEhTI#Right-Pointing Double Angle Quotation Mark#, Sankt-Peterburg (RU))

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S63

Pokhil, G.P.; Kulikauskas, V.S.; Zhurukhina, A.V. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki imeni D.V.

Skobel'tsyna, MGU imeni M.V. Lomonosova, Moscow (RU)); Trukhanov, K.A. (GNTs RF-IMBP RAN, Moscow (RU))

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Alekseev, V.I.; Eliseev, A.N.; Nazhmudinov, R.M.; Sergienko, V.I. (Lab. Radiatsionnoj Fiziki, NIU BelGU, Belgorod (RU); Fizicheskij Inst. im. P.N. Lebedeva RAN, Moscow (RU)); Iribarra, Eh.; Kishchin, I.A.; Nikulin, I.S. (Lab. Radiatsionnoj Fiziki, NIU BelGU, Belgorod (RU)); Kubankin, A.S. (Lab. Radiatsionnoj Fiziki, NIU BelGU, Belgorod (RU); Fizicheskij Inst. im. P.N. Lebedeva RAN, Moscow (RU); Tomskij Politehnicheskij Univ., Tomsk (RU))

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Malyshevskij, V.S.; Ivanova, I.A. (Yuzhnyj Federal'nyj Univ., Rostov-na-Donu (RU))

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Vukolov, A.V.; Novokshonov, A.I.; Potylitsyn, A.P. (Tomskij Politekhnikeskij Univ., Tomsk (RU)); Muradyan, T.R.; Movsisyan, A.E. (Inst. Prikladnykh Problem Fiziki, Erevan (AM)); Kocharyan, V.R. (Tomskij Politekhnikeskij Univ., Tomsk (RU); Inst. Prikladnykh Problem Fiziki, Erevan (AM))

(Inst. Prikladnykh Problem Fiziki, Erevan (AM))

(Tomskij Politekhnikeskij Univ., Tomsk (RU); Inst. Prikladnykh Problem Fiziki, Erevan (AM))

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S75

Vukolov, A.V.; Novokshonov, A.I.; Potylitsyn, A.P. (Tomskij Politekhnikeskij Univ., Tomsk (RU)); Muradyan, T.R.; Khlopuzyan, S.G. (Inst. Prikladnykh Problem Fiziki, Erevan (AM)); Kocharyan, V.R. (Tomskij Politekhnikeskij Univ., Tomsk (RU)); Inst. Prikladnykh Problem Fiziki, Erevan (AM))

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Angular momentum of relativistic electron radiation at channeling in thin Si crystal

S75

Abdrashitov, S.V. (Tomskij Politekhnikeskij Univ., Tomsk (RU)); Tomskij Gosudarstvennyj Univ., Tomsk (RU)); Bordovitsyn, V.A. (Tomskij Gosudarstvennyj Univ., Tomsk (RU)); Pivovarov, Yu.L.; Tukhfatullin, T.A. (Tomskij Politekhnikeskij Univ., Tomsk (RU))

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Deviation of charged particles by miscut surface of oriented crystal

S75

Babaev, A.A. (Tomskij Politehnicheskij Univ., Tomsk (RU)); Kavoto, Zh.-L. (INFN, Sez. Roma La Sapienza, Rome (IT)); Dabagov, S.B. (INFN, Lab. Nazionali di Frascati, Frascati (IT); Fizicheskij Inst. im. P.N. Lebedeva RAN, Moscow (RU))

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Features of spectral and angular distributions of radiation and scattering at electron channeling in HWC Si

S75

Bogdanov, O.V.; Pivovarov, Yu.L.; Tukhfatullin, T.A. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU)); Takabayashi, Yu. (Saga Lajt Sors, Saga (JP))

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Effect of divergence of electron beam crossing monocrystal plate on spectral and angular characteristics of coherent X-radiation**S75***Blazhevich, S.V.; Kos'kova, T.V.; Noskov, A.V. (Belgorodskij Gosudarstvennyj Natsional'nyj Issledovatel'skij Univ., Belgorod (RU))***XLV International Tulinov conference on physics of interactions of charged particles with crystals**

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Vliyanie raskhodimosti ehlektronnogo puchka, peresekayushchego monokristallicheskuyu plastinku, na spektral'no-uglovykh kharakteristiki kogerentnogo rentgenovskogo izlucheniya

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S43

Vnukov, I.E.; Vykhodtseva, M.V.; Goponov, Yu.A.; Laktionova, S.A.; Pligina, O.O.; Sidnin, M.A. (Belgorodskij Gosudarstvennyj Natsional'nyj Issledovatel'skij Univ., Belgorod (RU))

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Coherent Bremsstrahlung of half-naked electron in thin crystal

S75

Fomin, A.S. (NNTs KhFTI, Khar'kov (UA)); Fomin, S.P.; Shul'ga, N.F. (NNTs KhFTI, Khar'kov (UA)); KhNU, Khar'kov (UA))

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Kogerentnoe tormoznoe izluchenie #Left Double Quotation Mark#polugologo#Right Double Quotation Mark# ehlektrona v tonkom kristalle

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S75

Ivashchuk, O.O.; Olejnik, A.N.; Kubankin, A.S. (Lab. Radiatsionnoj Fiziki, NIU BelGU, Belgorod (RU)); Shchagin, A.V. (Lab. Radiatsionnoj Fiziki, NIU BelGU, Belgorod (RU); NNTs KhFTI, Khar'kov (UA))

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Source of vacuum ultraviolet and soft X-radiation based on interaction of fast electron beam with plane target in sliding geometry

S07

Kishchin, I.A.; Al'-Omari, M.; Nguen, Kh.; Fam, T. (Lab. Radiatsionnoj Fiziki, NIU BelGU, Belgorod (RU));

Kubankin, A.S. (Lab. Radiatsionnoj Fiziki, NIU BelGU, Belgorod (RU); Fizicheskij Inst. im. P.N. Lebedeva

RAN, Moscow (RU); Tomskij Politekhnikeskij Univ., Tomsk (RU)); Nazhmudinov, R.M.; Sergienko, V.I.

(Lab. Radiatsionnoj Fiziki, NIU BelGU, Belgorod (RU); Fizicheskij Inst. im. P.N. Lebedeva RAN, Moscow (RU))

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Istochnik vakuumnogo ul'trafioleta i myagkogo rentgena na osnove vzaimodejstviya puchka bystrykh ehlektronov s ploskoj mishen'yu v skol'zyashchej geometrii

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Study of channeled particle in two-well potential as critical experiment about present or absence zones**S75***Kalashnikov, N.P.; Mazur, E.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. #Left Double Quotation Mark#MIFI#Right Double Quotation Mark#, Moscow (RU))***XLV International Tulinov conference on physics of interactions of charged particles with crystals**

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Orientation dependence of generation and annihilation of electron-positron pairs in monocrystal at high energy**S75***Kalashnikov, N.P.; Ol'chak, A.S. (Natsional'nyj Issledovatel'skij Yadernyj Univ. NIYaU MIFI, Moscow (RU))***XLV International Tulinov conference on physics of interactions of charged particles with crystals**

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Uglov, S.R.; Vukolov, A.V.; Kaplin, V.V.; Sukhikh, L.G. (Tomskij Politekhnikeskij Univ., Tomsk (RU))

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Blazhevich, S.V.; Kos'kova, T.V.; Nemtsev, S.N.; Noskov, A.V. (Belgorodskij Gosudarstvennyj Natsional'nyj Issledovatel'skij Univ., Belgorod (RU))

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Kovivchak, V.S.; Panova, T.V.; Popov, A.V. (Omskij Gosudarstvennyj Univ. im. F.M. Dostoevskogo, Omsk (RU))

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Novikov, L.S.; Chernik, V.N.; Zhilyakov, L.A.; Voronina, E.N. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki im. D.V. Skobel'tsyna Moskovskogo Gosudarstvennogo Univ. im. M.V. Lomonosova, Moscow (RU));

Belyaeva, N.A. (Moskovskij Gosudarstvennyj Univ. im. M.V. Lomonosova, Fizicheskij Fakul'tet, Moscow (RU))

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Barat, A.A.; Manukhin, V.V. (FGBOU VPO NIU #Left-Pointing Double Angle Quotation Mark#MEH#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Mashkova, E.S. (NIIYaF MGU im. M.V. Lomonosova, Moscow (RU)); Pitirimova, E.A. (NNGU im N.I.

Lobachevskogo, Fizicheskij Fakul'tet, Nizhnij Novgorod (RU)); Popov, V.P. (Inst. Fiziki Poluprovodnikov im. A.V. Rzhanova, Novosibirsk (RU))

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Podsvirov, O.A.; Karasev, P.A.; Shubina, E.N.; Mishin, M.V.; Pozdnyakov, A.V.; Titov, A.I. (Gosudarstvennyj Politehnicheskij Univ., Sankt-Peterburg (RU)); Vinogradov, A.Ya.; Prosnikov, M.V. (Fiziko-Tekhnicheskij Inst. im. A.F. Ioffe, Sankt-Peterburg (RU)); Karasev, N.N. (Gosudarstvennyj Univ. Informatsionnykh Tekhnologij, Mekhaniki i Optiki, Sankt-Peterburg (RU))

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Ieshkin, A.E.; Kireev, D.S.; Chernysh, V.S. (MGU im. M.V. Lomonosova, Fizicheskij Fakul'tet, Moscow (RU)); Ermakov, Yu.A. (NIIYaF im. D.V. Skobel'tsyna, MGU imeni M.V. Lomonosova, Moscow (RU))

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Karabeshkin, K.V.; Karasev, P.A.; Titov, A.I. (Gosudarstvennyj Politekhnikeskij Univ., Sankt-Peterburg (RU))

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Tyschenko, I.E.; Popov, V.P. (Inst. Fiziki Poluprovodnikov im. A.V. Rzhanova SO RAN, Novosibirsk (RU)); #Latin Capital Letter A With Grave#vila, T.S.; Grande, P.L. (Inst. of Physics, UFRGS, Porto Alegre (BR))

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Balakshin, Yu.V.; Shemukhin, A.A.; Nazarov, A.V. (NIIYaF im. D.V. Skobel'tsyna, MGU im. M.V. Lomonosova, Moscow (RU)); Chernysh, V.S. (NIIYaF im. D.V. Skobel'tsyna, MGU im. M.V. Lomonosova, Moscow (RU)); MGU im. M.V. Lomonosova, Fizicheskij Fakul'tet, Moscow (RU)); Kozhemyako, A.V. (MGU im. M.V.

Lomonosova, Fizicheskij Fakul'tet, Moscow (RU)); Erich, M.; Petrovi#Latin Small Letter C With Acute#, S. (Vin#Latin Small Letter C With Caron#a Inst. of Nuclear Sciences, Univ. of Belgrade, Belgrade (RS))

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Pashkov, I.N. (NITU Moskovskij Inst. Stali i Splavov, Moscow (RU)); Ligacheva, E.A. (Moskovskij Aviatsionnyj Tekhnologicheskij Inst. im. K.Eh. Tsiolkovskogo, Moscow (RU)); Ligachev, A.E. (Inst. Obshchej Fiziki im. A.M. Prokhorova RAN, Moscow (RU)), e-mail: carbin@yandex.ru

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Vorob'ev, V.V.; Osin, Yu.N. (Kazanskij (Privolzhskij) Federal'nyj Univ., Kazan' (RU)); Valeev, V.F.; Nuzhdin, V.I.; Stepanov, A.L. (Kazanskij Fiziko-Tekhnicheskij Inst. im. E.K. Zavojskogo KazNTs RAN, Kazan' (RU))

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Vakhitov, I.R.; Tagirov, L.R. (KFU, Kazan' (RU)); Nuzhdin, V.I.; Rameev, B.Z.; Khajbullin, R.I. (KFTI KazNTs RAN, Kazan' (RU)); Shemukhin, A.A. (NIIYaF MGU, Moscow (RU))

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Polyakov, A.N. (Kaluzhskij Gosudarstvennyj Univ. im. K.Eh. Tsiolkovskogo, Kaluga (RU)); Stepovich, M.A. (Kaluzhskij Gosudarstvennyj Univ. im. K.Eh. Tsiolkovskogo, Kaluga (RU)); Ivanovskij Filial Rossijskogo Ehkonomicheskogo Univ. im. G.V. Plekhanova, Ivanovo (RU)); Turtin, D.V. (Ivanovskij Filial Rossijskogo Ehkonomicheskogo Univ. im. G.V. Plekhanova, Ivanovo (RU))

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S75
Afanas'ev, V.P.; Kaplya, P.S. (Natsional'nyj Issledovatel'skij Univ. #Left-Pointing Double Angle Quotation Mark#MEI#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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2 refs.

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Afanas'ev, V.P.; Gryazev, A.S.; Kaplya, P.S.; Lyapunov, N.V. (Natsional'nyj Issledovatel'skij Univ. #Left-Pointing Double Angle Quotation Mark#MEI#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Tolmachev, A.I. (Rossijskij Novyj Univ., Moscow (RU))

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Khamdokhov, Eh.Z.; Teshev, R.Sh.; Khamdokhov, Z.M.; Kalazhokov, V.S.; Kalazhokov, Kh.Kh. (KBGU, Nal'chik (RU)); Kulikauskas, V.S. (NII Yadernoj Fiziki im. D.V. Skobel'tsyna, MGU im. M.V. Lomonosova, Moscow (RU)); Eriskin, A.A. (MIEhM NIU #Left-Pointing Double Angle Quotation Mark#VShEh#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Fizicheskij Inst. im. P.N. Lebedeva RAN, Moscow (RU))

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Quantum mechanics justification of pair interactions of particles at surface sputtering **S75**

Borisovskij, P.A.; Gavrilov, S.V.; Moos, E.N.; Savushkin, O.V. (Ryazanskij Gosudarstvennyj Univ. im. S.A. Esenina, Ryazan' (RU))

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Change of state of surface atoms in charged particle beam

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Borisovskij, P.A.; Kiselev, G.V.; Moos, E.N. (RGU im. S.A. Esenina, Ryazan' (RU)); Naumkin, A.V. (Inst. Ehlementoorganicheskikh Soedinenij im. A.N. Nesmeyanova RAN, Moscow (RU))

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S75
Morozov, S.N.; Rasulev, U.Kh. (Inst. Ionno-Plazmennyykh i Lazernyykh Tekhnologiy AN RUz, Tashkent (UZ)), e-mail: morozov@aie.uz

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Simulation of dynamics of Cu₃ cluster on Cu(100) with step

S75
Duda, E.V.; Kornich, G.V. (Zaporozhskij Natsional'nyj Tekhnicheskij Univ., Zaporozh'e (UA))
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Molecular dynamic simulation of metallic clusters sputtering on polyethylene surface by low-energy ions

S75

Ermolenko, A.A.; Kornich, G.V. (Zaporozhskij Natsional'nyj Tekhnicheskij Univ., Zaporozh'e (UA)); Buga, C.G. (FGBNU #Left Double Quotation Mark#Tekhnologicheskij Inst. Sverkh'tverdykh i Novykh Uglerodnykh Materialov#Right Double Quotation Mark#, Moscow, Troitsk (RU))

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Simulation of low-energy sputtering of metallic clusters on graphite (0001) surface

S75

Kornich, G.V. (Zaporozhskij Natsional'nyj Tekhnicheskij Univ., Zaporozh'e (UA))

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Simulation of bimetallic clusters under action of low-energy bombardment by Ar ions **S75**

Shirokorad, D.V.; Kornich, G.V. (Zaporozhskij Natsional'nyj Tekhnicheskij Univ., Zaporozh'e (UA))

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S77

Bochkareva, E.S.; Nikonorov, N.V.; Sidorov, A.I. (ITMO Univ., Saint-Petersburg (RU)); Podsvirov, O.A. (Saint-Petersburg Polytechnical Univ., Saint-Petersburg (RU)); Prosnikov, M.A. (Ioffe Physical-Technical Inst., Russian Academy of Sciences, Saint-Petersburg (RU))

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S36

Potemkin, G.V.; Remnev, G.E. (TPU, Tomsk (RU)); Ligachev, A.E. (IOF im. A.N. Prokhorova RAN, Moscow (RU)); Zhidkov, M.V.; Kolobov, Yu.R.; Bozhko, S.A. (BGNIU, Belgorod (RU)); ISM i PM RAN, Chernogolovka (RU)); Smolyakova, M.Yu. (BGNIU, Belgorod (RU))

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Erosion of carbon-carbon composite fiber surface under high-dose ion irradiation

S36

Andrianova, N.N.; Borisov, A.M. (MATI-RGTU im. K.Eh. Tsiolkovskogo, Moscow (RU)); Virgil'ev, Yu.S. (AO #Left-Pointing Double Angle Quotation Mark#NIIgrafit#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Mashkova, E.S.; Shul'ga, V.I. (NIIYaF MGU im. M.V. Lomonosova, Moscow (RU))

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Batgehrehl, B.; Didyk, A.Yu.; Lenivenko, V.V.; Nikonov, Eh.G.; Nikonova, O.K.; Puzynin, I.V.; Puzynina, T.P. (Ob'edinennyj Inst. Yadernykh Issledovanij, Dubna (XJ))

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Formation of InFeAs layers and their modification by means of ion implantation

S75

Danilov, Yu.A. (Nizhegorodskij Gosudarstvennyj Univ. im. N.I. Lobachevskogo, Nizhnij Novgorod (RU); Nauchno-Issledovatel'skij Fiziko-Tekhnicheskij Inst. pri NNGU, Nizhnij Novgorod (RU)); Dudin, Yu.A.; Lesnikov, V.P. (Nauchno-Issledovatel'skij Fiziko-Tekhnicheskij Inst. pri NNGU, Nizhnij Novgorod (RU)); Kudrin, A.V.; Petryakova, E.V.; Pitirimova, E.A.; Yakubov, P.P. (Nizhegorodskij Gosudarstvennyj Univ. im. N.I. Lobachevskogo, Nizhnij Novgorod (RU))

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Didyk, A.Yu. (Ob''edinennyj Inst. Yadernykh Issledovanij, Lab. Yadernykh Reaktsij im. G.N. Flerova, Dubna (XJ))

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Study of microstructure, chemical composition and near-surface layer properties of rapid-hardening aluminium alloys with Cr, Zn and In

S36

Tashlykova-Bushkevich, I.I. (BGUIR, Minsk (BY)); Yakovenko, Yu.S.; Tashlykov, I.S. (BGPU im. M. Tanka, Minsk (BY)); Kulikauskas, V.S. (NIIYaF MGU, Moscow (RU)); Shepelevich, V.G. (BGU, Minsk (BY))

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Study of structure and composition of rapid-hardening Al-Cr alloys by scanning photoelectron spectroscopy with use of synchrotron radiation

S36

Tashlykova-Bushkevich, I.I. (Belorusskij GosUniv. Informatiki i Radioehlektroniki, Minsk (BY)); Amati, M.; Sezen, H.; Gregoratti, L.; Kiskinova, M. (ELETTRA Synchrotron Light Source, Trieste (IT)); Shepelevich, V.G. (Belorusskij Gosudarstvennyj Univ., Minsk (BY))

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Issledovanie struktury i sostava bystrozatverdevshikh splavov Al-Cr metodom skaniruyushchej fotoehlektronnoj spektroskopii s ispol'zovaniem sinkhrotronnogo izlucheniya

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Isotope and nuclear physical methods for study of oxygen deficiency in titanium dioxide nanopowders

S75

Vykhodets, V.B.; Kurennykh, T.E.; Obukhov, S.I.; Ujmin, M.A.; Ermakov, A.E. (IFM UrO RAN, Ekaterinburg (RU))

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Vykhodets, V.B.; Kurennykh, T.E.; Obukhov, S.I. (IFM UrO RAN, Ekaterinburg (RU)); Nefedova, O.A. (IMASH UrO RAN, Ekaterinburg (RU))

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S36
Beloglazova, P.A.; Berezneeva, E.V.; Pushilina, N.S.; Remnev, G.E.; Chernov, I.P. (Natsional'nyj Issledovatel'skij Tomskij Politekhnicheskij Univ., Tomsk (RU))

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TREATMENTS; SURFACE HARDENING; EXPERIMENTAL DATA

Structural and phase changes in thin-film Zr-Si-N system irradiated by xenon ions **S75**

*Uglov, V.V. (Belorusskij Gosudarstvennyj Univ., Minsk (BY); Tomskij Politehnicheskij Univ., Tomsk (RU));
Abadi, G. (Inst. F#Right Single Quotation Mark#, Univ. Puat'e, Puat'e (FR)); Zlotskij, S.V.; Solodukhin, I.A.;
Shimanskij, V.I.; Suvalov, A.M. (Belorusskij Gosudarstvennyj Univ., Minsk (BY))*

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Karaseov, P.A.; Karabeshkin, K.V.; Titov, A.I. (State Polytechnic Univ., Saint-Petersburg (RU)); Ullah, M.W.; Kuronen, A.; Djurabekova, F.; Nordlund, K. (Univ. of Helsinki, Helsinki (FI))

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Effect of annealing on Si properties implanted by " $^{64}\text{Zn}^{+}$ " ions under heated substrate

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Privezentsev, V.V. (FTIAN RAN, Moscow (RU)); Kulikauskas, V.S.; Zatekin, V.V. (NIIYaF, MGU, Moscow (RU)); Goryachev, A.V. (NIU #Left-Pointing Double Angle Quotation Mark#MIEhT#Right-Pointing Double Angle Quotation Mark#, Zelenograd, Moscow (RU)); Batrakov, A.A. (NIU #Left-Pointing Double Angle Quotation Mark#MEhI#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Kozlovskij, V.V.; Vasil'ev, A.Eh. (Sankt-Peterburgskij Gosudarstvennyj Politehnicheskij Univ., Sankt-Peterburg (RU)); Emtsev, V.V.; Lebedev, A.A. (Fiziko-Tekhnicheskij Inst. im. A.F. Ioffe RAN, Sankt-Peterburg (RU))

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Poplavskij, V.V.; Dorozhko, A.V.; Matys, V.G. (Belorusskij Gosudarstvennyj Tekhnologicheskij Univ., Minsk (BY))

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S36

Mikhalkovich, O.M.; Tashlykov, I.S. (BGPU, Minsk (BY)); Bobrovich, O.G. (BGTU, Minsk (BY)); Kulikauskas, V.S. (NIIYaF MGU, Moscow (RU))

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Composition of thin film metal/beryllium obtained by ion-assisted deposition

S75

Tashlykov, I.S. (Belorusskij Gosudarstvennyj Pedagogicheskij Univ., Minsk (BY)); Tul'ev, V.V. (Belorusskij Gosudarstvennyj Tekhnologicheskij Univ., Minsk (BY))

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Distribution of hydrogen and deuterium in assemblies of two Zr, Ti and Ni foils after exposure by pulsed deuterium high-temperature plasma

S75

Didyk, A.Yu. (Ob''edinennyj Inst. Yadernykh Issledovanij, Lab. Yadernykh Reaktsij im. G.N. Flerova, Dubna (XJ)); Eriskin, A.A. (Vysshaya Shkola Ehkonomiki, MIEhM NIU, Moscow (RU)); Kulikauskas, V.S. (Nauchno-Issledovatel'skitsj Inst. Yadernoj Fiziki im. D.V. Skobel'tsyna MGU, Moscow (RU)); Silin, P.V.; Nikulin, V.Ya. (Fizicheskij Inst. im. P.N. Lebedeva RAN, Moscow (RU))

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Raspredelenie vodoroda i dejteriya v sborkakh iz dvukh Zr, Ti i Ni fol'g posle vozdejstviya impul'snoj dejterievoj vysokotemperaturnoj plazmy

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Distribution of hydrogen and deuterium in assembly of two W foils after pulsed deuterium high-temperature plasma

S75

Didyk, A.Yu. (Ob''edinennyj Inst. Yadernykh Issledovanij, Lab. Yadernykh Reaktsij im. G.N. Flerova, Dubna (XJ)); Eriskin, A.A. (Vysshaya Shkola Ehkonomiki, MIEhM NIU, Moscow (RU)); Kulikauskas, V.S. (Nauchno-Issledovatel'skitsj Inst. Yadernoj Fiziki im. D.V. Skobel'tsyna MGU, Moscow (RU)); Silin, P.V.; Nikulin, V.Ya. (Fizicheskij Inst. im. P.N. Lebedeva RAN, Moscow (RU))

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Effect of xenon ion irradiation on parameters of silicon photovoltaic structures shaped by means of compressed plasma flows

S36
Uglov, V.V.; Kvasov, N.T. (Belorusskij Gosudarstvennyj Univ., Minsk (BY)); Astashinskij, V.M.; Kudaktin, R.S.; Kuz'mitskij, A.M. (Inst. Teplo- i Massoobmena im. A.V. Lykova NAN Belarusi, Minsk (BY)); Skuratov, V.A. (Ob''edinennyj Inst. Yadernykh Issledovanij, Dubna (XJ))

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Control of radiative emissions by sensors based on MDS-structures

S46
Andreev, V.V.; Solov'ev, I.V.; Akhmelkin, D.M. (MGTU im. N.Eh. Baumana, Kaluzhskij Filial, Kaluga (RU)); Bondarenko, G.G. (Natsional'nyj Issledovatel'skij Univ. #Left-Pointing Double Angle Quotation Mark#Vysshaya Shkola Ehkonomiki#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Modification of MDS-structures by electron irradiation and strong field electron injection **S75**

Andreev, D.V. (MGTU im. N.Eh. Baumana, Kaluzhskij Filial, Kaluga (RU); Natsional'nyj Issledovatel'skij Univ. #Left-Pointing Double Angle Quotation Mark#Vysshaya Shkola Ehkonomiki#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Stolyarov, A.A. (MGTU im. N.Eh. Baumana, Kaluzhskij Filial, Kaluga (RU)); Bondarenko, G.G. (Natsional'nyj Issledovatel'skij Univ. #Left-Pointing Double Angle Quotation Mark#Vysshaya Shkola Ehkonomiki#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Yashin, A.S.; Volkov, N.V.; Valikov, R.A. (NIYaU #Left-Pointing Double Angle Quotation Mark#MIFI#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Okulich, E.V.; Mikhajlov, A.N.; Gusejnov, D.V.; Tetel'baum, D.I. (NNGU im. N.I. Lobachevskogo, Nizhnij Novgorod (RU)); Shemukhin, A.A.; Balakshin, Yu.V. (NIIYaF im. D.V. Skobel'tsyna, Moscow (RU))

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Vershinin, G.A.; Gering, G.I.; Panova, T.V.; Bukhbinder, G.L. (Omskij Gosudarstvennyj Univ. im. F.M. Dostoevskogo, Omsk (RU))

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Kovivchak, V.S.; Panova, T.V.; Mikhajlov, K.A. (Omskij Gosudarstvennyj Univ. im. F.M. Dostoevskogo, Omsk (RU))

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Zastavnoj, A.V.; Korol', V.M. (NII Fiziki YuFU, Rostov-na-Donu (RU))

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Phase transformations of silicon under indenter at conditions of low-dose beta-irradiation

S36

Guseva, D.G.; Dmitrievskij, A.A.; Efremova, N.Yu.; Zhigachev, A.O. (TGU im. G.R. Derzhavina, Tambov (RU)), e-mail: dmitr2002@tsu.tmb.ru

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Timchenko, N.A.; Kuznetsov, S.I.; Syrtanov, M.S.; Bondarenko, S.V. (Natsional'nyj Issledovatel'skij Tomskij Politekhnicheskij Univ., Tomsk (RU)); Krysina, O.V. (Inst. Sil'notochnoj Ehlektroniki SO RAN, Tomsk (RU))

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Vaganova, N.I.; Izraileva, L.K.; Rumanov, Eh.N. (GBUN Inst. Strukturnoj Makrokinetiki i Materialovedeniya RAN, Chernogolovka (RU))

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Rogozhin, A.E.; Rudenko, K.V.; Myakon'kikh, A.V. (FTIAN, Moscow (RU)); Chernysh, V.S.; Shemukhin, A.A.; Balakshin, Yu.V. (NIIYaF MGU, Moscow (RU)); Rudakov, V.I. (YarGU, Yaroslavl' (RU))

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Shemukhin, A.A.; Balakshin, Yu.V.; Nazarov, A.V.; Vorob'eva, E.A. (NIIYaF MGU, Moscow (RU)); Kozhemyako, A.V.; Medvedev, V.A. (Fizicheskij Fakul'tet MGU, Moscow (RU))

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Distribution of doping elements (C, Mn, Cr, Si) in subsurface steel layer treated by vacuum arc discharge**S75**

Arustamov, V.N.; Ashurov, Kh.B.; Khudojkulov, I.Kh.; Kakhramonov, B.R. (Inst. Ionno-Plazmennyykh i Lazernyykh Tekhnologij ANRUz, Tashkent (UZ)), E-mail: arustamov@aie.uz

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Arustamov, V.N.; Ashurov, Kh.B.; Nagajbekov, R.B.; Kadyrov, Kh.Kh.; Khudajkulov, I.Kh. (Inst. Ionno-Plazmennyykh i Lazernyykh Tekhnologij ANRUz, Tashkent (UZ)), E-mail: arustamov@aie.uz

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Arustamov, V.N.; Ashurov, Kh.B.; Khudajkulov, I.Kh.; Kakhramonov, B.R. (Inst. Ionno-Plazmennyykh i Lazernyykh Tekhnologij ANRUz, Tashkent (UZ)), E-mail: arustamov@aie.uz

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Atabaev, B.G.; Sharopov, U.B.; Dzhabbarganov, R.; Kurbanov, M.K.; Ziyaev, B.A. (Inst. Ionno-Plazmennyykh i Lazernyykh Tekhnologij ANRUz, Tashkent (UZ))

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Dzhemilev, N.Kh.; Kovalenko, S.F.; Maksimov, S.E.; Tugushev, V.I.; Tukfatullin, O.F.; Khozhiev, Sh.T. (Inst. Ionno-Plazmennykh i Lazernykh Tekhnologij ANRUz, Tashkent (UZ))

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Study of formation and molecular fragmentation of Si_nO_m⁺ clusters at ion bombardment

S75

Dzhemilev, N.Kh.; Kovalenko, S.F.; Maksimov, S.E.; Tukfatullin, O.F.; Khozhiev, Sh.T. (Inst. Ionno-Plazmennykh i Lazernykh Tekhnologij ANRUz, Tashkent (UZ))

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Issledovanie obrazovaniya i monomolekulyarnoj fragmentatsii klasterov $Si_nO_m^{n+}$ pri ionnoj bombardirovke

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Study of element and chemical composition of CdTe surface implanted by active metal ions
S75*Mukhtarov, Z.Eh.; Isakhanov, Z.A.; Umirzakov, B.E.; Kodirov, T.; Isakhanov, U.Z. (Inst. Ionno-Plazmennyykh i Lazernyykh Tekhnologij ANRUz, Tashkent (UZ)), E-mail: isakhanov@aie.uz***XLV International Tulinov conference on physics of interactions of charged particles with crystals**

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S75

Mukhtarov, Z.Eh.; Khalmatov, A.S.; Isakhanov, Z.A.; Umirzakov, B.E.; Ruzibaeva, M.K. (Inst. Ionno-Plazmennyykh i Lazernyykh Tekhnologiy ANRUz, Tashkent (UZ)), E-mail: isakhanov@aie.uz

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S77

Nimatov, S.Zh. (IIPiLT AN RUz, Tashkent (UZ)); Rumi, D.S. (NTP #Left Double Quotation Mark#PROTON#Right Double Quotation Mark#, Tashkent (UZ))

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Observation of interstitial Zn diffusion from thin ZnO film into Si substrate

S75

Nusretov, R.A. (Inst. Ionno-Plazmennyykh i Lazernyykh Tekhnologiy ANRUz, Tashkent (UZ)); Yuldashev, Sh.U. (Quantum-Functional Semiconductor Research Center, Dongguk Univ., Seoul (KR))

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Synergy of catastrophic failures of semiconductor devices at high-energy ion irradiation

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Oksengendler, B.L.; Maksimov, S.E.; Turaev, N.Yu. (Inst. Ionno-Plazmennyykh i Lazernyykh Tekhnologiy ANRUz, Tashkent (UZ)); Dzhurabekova, F.G. (Helsinki Inst. of Physics and Dept. of Physics, Univ. of Helsinki, Helsinki (FI))

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Thermosensitive structure produced by implantation of P⁺ and B⁺ ions into Si(111) S75

Rysbaev, A.S.; Khuzhaniyazov, Zh.B.; Bekpulatov, I.R.; Fajzullaev, R.F. (Tashkentskij Gosudarstvennyj Tekhnicheskij Univ., Tashkent (UZ))

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Method of additional cleaning of silicon monocrystal surface

S75

Rysbaev, A.S.; Khuzhaniyazov, Zh.B.; Bekpulatov, I.R.; Khajriddinov, B.Eh. (Tashkentskij Gosudarstvennyj Tekhnicheskij Univ., Tashkent (UZ))

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Composition, structure and interface properties of Al/Si, Al/NaSi_2

S75

Tashmukhamedova, D.A.; Umirzakov, B.E.; Donaev, S.B.; Boltaev, Kh.Kh. (Tashkentskij Gosudarstvennyj Tekhnicheskij Univ., Tashkent (UZ))

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Effect of ion bombardment on composition and structure of transition layer on interface of

TiN-Fe nanofilm system**S75***Umirzakov, B.E.; Ruzibaeva, M.K. (Inst. Ionno-Plazmennyykh i Lazernyykh Tekhnologiy ANRUz, Tashkent (UZ))***XLV International Tulinov conference on physics of interactions of charged particles with crystals**

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Forbidden band width of Si nanostructures produced on SiO₂ surface by ion bombardment**S77***Umirzakov, B.E.; Ehrgashov, E.S.; Tashatov, A.K.; Kholmukhamedova, V.Kh. (Tashkentskij Gosudarstvennyj Tekhnicheskij Univ., Tashkent (UZ))***XLV International Tulinov conference on physics of interactions of charged particles with crystals**

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Yusupdzhanova, M.B.; Tashmukhamedova, D.A.; Rabbimov, Eh.; Mirzhalilova, M.A. (Tashkentskij Gosudarstvennyj Tekhnicheskij Univ., Tashkent (UZ))

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Radiation effects in composite HTSC conductors

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Troitskij, A.V.; Mikhajlova, G.N.; Antonova, L.Kh. (Inst. Obshchej Fiziki im. A.M. Prokhorova RAN, Moscow (RU)); Demikhov, T.E. (Fizicheskij Inst. im. P.N. Lebedeva RAN, Moscow (RU)); Didyk, A.Yu. (Lab. im. G.N. Flerova OIYaI, Dubna (XJ))

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Ion beam and X-ray investigations of pseudo-epitaxial structure of Au on muscovite **S75**

Egorov, V.K.; Egorov, E.V. (IPTM RAN, Chernogolovka (RU)); Mironov, Yu.M. (OOO #Left-Pointing Double Angle Quotation Mark#NTK MGTU im. N.Eh. Bauman#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Study of structure of oxide coatings on zirconium and zirconium alloy Eh110 **S36**

Borisov, A.M.; Vinogradov, A.V. (MATI #En Dash# RGTU im. K.Eh. Tsiolkovskogo, Moscow (RU)); Savushkina, S.V.; Polyanskij, M.N. (GNTs FGUP #Left-Pointing Double Angle Quotation Mark#Tsentr Keldysha#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Tkachenko, N.V.; Vostrikov, V.G. (NIIYaF MGU, Moscow (RU))

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Kabyshev, A.V.; Konusov, F.V. (NITPU, Tomsk (RU))

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Grigor'ev, P.Yu.; Bakaev, A.V. (Sankt-Peterburgskij Gosudarstvennyj Politehnicheskij Univ. (SPbGPU), Sankt-Peterburg (RU); Bel'gijskij Tsentr Yadernykh Issledovanij SCK CEN, Mol (BE)); Terent'ev, D.A. (Bel'gijskij Tsentr Yadernykh Issledovanij SCK CEN, Mol (BE)); Zhurkin, E.E. (Sankt-Peterburgskij Gosudarstvennyj Politehnicheskij Univ. (SPbGPU), Sankt-Peterburg (RU))

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2 refs.

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Muhammad Sajid; Shahrukh Agha (Dept. of Electrical Engineering, COMSATS Inst. of Information Technology (CIIT), Park Road, Islamabad (PK)); Chechenin, N.G. (Skobel'tsyn Inst. of Nuclear Physics, Moscow State Univ., Moscow (RU)); Frank Sill Torres (Dept. of Electrical Engineering, UFMG Brazil, Belo Horizonte (BR)); Khan, E.U. (Dept. of Physics, CESET Islamabad, Islamabad (PK)); Adeel Shahzeb (Satellite Research and Development Center SUPARCO, Lahore (PK)), E-mail: sajidkhan@gmail.com, franksill@ufmg.br, nchechenin@yandex.ru, ehsanukhan@ceset.pk, shahrukh_gha@comsats.edu.pk

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Borisov, A.M. (MATI-RGTU im. K.Eh. Tsiolkovskogo, Moscow (RU)); Vostrikov, V.G.; Kamenskikh, A.I.; Kulikauskas, V.S.; Tkachenko, N.V.; Chernik, V.N. (NIIYaF MGU, Moscow (RU))

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Electron probe study of influence of magnetopulsed treatment on structure and properties of ferrites

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Viryus, A.A. (Inst. Eksperimental'noj Mineralogii RAN, Chernogolovka (RU)); Korovushkin, V.V. (Natsional'nyj Issledovatel'skij Tekhnologicheskij Univ. #Left-Pointing Double Angle Quotation Mark#MISiS#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Ivanovskij Filial Rossijskogo Ehkonomicheskogo Univ. im. G.V. Plekhanova, Ivanovo (RU)); Stepovich, M.A. (Ivanovskij Filial Rossijskogo Ehkonomicheskogo Univ. im. G.V. Plekhanova, Ivanovo (RU)); Kaluzhskij Gosudarstvennyj Univ. im. K.Eh. Tsiolkovskogo, Kaluga (RU)); Shipko, M.N. (Ivanovskij Filial Rossijskogo Ehkonomicheskogo Univ. im. G.V. Plekhanova, Ivanovo (RU)); Ivanovskij Gosudarstvennyj Ehnergeticheskij Univ. im. V.I. Lenina, Ivanovo (RU)); Filippov, M.N. (Inst. Obshchej i Neorganicheskoj Khimii im. N.S. Kurnakova RAN, Moscow (RU))

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Popov, V.P.; Antonov, V.A.; Safronov, L.N.; Podlesnyj, S.N. (Inst. Fiziki Poluprovodnikov im A.V. Rzhanova, Novosibirsk (RU)); Kupriyanov, I.N.; Pal'yanov, Yu.N. (Inst. Geologii i Mineralogii im. V.S. Soboleva, Novosibirsk (RU))

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Eriskin, A.A.; Bondarenko, G.G. (Natsional'nyj Issledovatel'skij Univ. #Left Double Quotation Mark#Vysshaya Shkola Ehkonomiki#Right Double Quotation Mark#, Moscow (RU)); Kolokol'tsev, V.N. (Inst. Metallurgii i Materialovedeniya im. A.A. Bajkova RAN, Moscow (RU)); Kulikauskas, V.S. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki im. D.V. Skobel'tsyna MGU, Moscow (RU)); Silin, P.V.; Nikulin, V.Ya. (Fizicheskij Inst. im. P.N. Lebedeva RAN, Moscow (RU))

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LEADING ABSTRACT; MEETINGS; NUCLEAR POWER; NUCLEAR POWER PLANTS; SPENT FUELS; ECONOMICS; RADIATION PROTECTION; REACTOR SAFETY

In May 25-27, 2016, the 10th International Scientific-technical Conference of JSC Concern Rosenergoatom was held in Moscow. The theme of the Conference was Safety, efficiency and economy of nuclear energy. The conference considered the most urgent issues related to: ensuring and improving the NPPs operation safety, the capacity factor increasing, extending the service life and nuclear power units decommissioning, developing and improving the economic efficiency of nuclear power. In all, 5 sections covering 20 subject matters worked at the Conference. The Conference was attended by more than 1,000 representatives of nuclear power plants, the central office of JSC Rosenergoatom Concern, Rosatom State Corporation, leading design and scientific organizations of the Russian nuclear industry, including 60 delegates from 20 countries

С 25 по 27 мая 2016 года в Москве прошла Десятая Международная научно-техническая конференция АО #Left-Pointing Double Angle Quotation Mark#Концерн Росэнергоатом#Right-Pointing Double Angle Quotation Mark# на тему #Left-Pointing Double Angle Quotation Mark#Безопасность, эффективность и экономика атомной энергетики#Right-Pointing Double Angle Quotation Mark#. Конференция посвящена рассмотрению наиболее актуальных задач, связанных с обеспечением и повышением безопасности эксплуатации энергоблоков АЭС, увеличением КИУМ, продлением сроков службы и выводом из эксплуатации энергоблоков АЭС, развитием и повышением экономической эффективности атомной энергетики. Всего на конференции работали 5 секций по 20 тематическим направлениям. В конференции приняли участие более 1000 представителей атомных станций, центрального аппарата АО #Left-Pointing Double Angle Quotation Mark#Концерн Росэнергоатом#Right-Pointing Double Angle Quotation Mark#, Госкорпорации #Left-Pointing Double Angle Quotation Mark#Росатом#Right-Pointing Double Angle Quotation Mark#, ведущих проектных и научных организаций атомной отрасли России, в том числе 60 делегатов из 20 стран дальнего и ближнего зарубежья

Chernobyl and Fukushima lessons and modern concepts of managing severe accidents

S22

Bol'shov, A.A. (IBRAEh RAN, Moscow (RU))

10th International scientific-technical conference #Left-Pointing Double Angle Quotation Mark#Safety, efficiency and economics of nuclear energy#Right-Pointing Double Angle Quotation Mark#

Moscow (RU)

25-27 May 2016

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Uroki Chernobylya i Fukusimy i sovremennye kontseptsii upravleniya #Left-Pointing Double Angle Quotation Mark#tyazhelymi#Right-Pointing Double Angle Quotation Mark# avariymi

p. 13-14

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatoma), Moscow (RU)

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AO Kontsern Rosehnergoatom

2016

800 p.

NUCLEAR POWER PLANTS; REACTOR SAFETY; REACTOR ACCIDENTS; CHERNOBYLSK-4 REACTOR; FUKUSHIMA-1 REACTOR; REACTOR CORES

The authors consider modern concepts of managing severe accidents at nuclear power plants on examples of events at the Chernobyl NPP and the Japanese Fukushima Daiichi NPP. The directions of improving the methods of calculating accidents with the reactor core melting and the issues of ensuring hydrogen safety are discussed in the paper

Авторы рассматривают современные концепции управления тяжелыми авариями на АЭС на примерах событий на Чернобыльской АЭС и японской АЭС Фукусима-Дайичи. Обсуждаются направления совершенствования расчетных методов аварий с расплавлением активной зоны реактора и вопросы обеспечения водородной безопасности

Approaches to fast neutrons fluence control and calculation at WWER reactor vessels and experience of their use during procedures of monitoring the WWER equipment radiation load

S22

Borodkin, P.G.; Khrennikov, N.N. (FBU NTTs YaRB, Moscow (RU)); Ryabinin, Yu.A.; Shamov, A.V. (AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Adeev, V.A. (Kol'skaya AEhS, Polyarnye Zori (RU))

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Podkhody po uchetu i kontrolyu flyuensa bystrykh nejtronov na korpusakh reaktorov VVEhR i opyt ikh ispol'zovaniya v ramkakh protsedury monitoringa radiatsionnoj nagruzki oborudovaniya VVEhR

p. 15-20

(RU)

10 refs., 5 figs., 1 tab.

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NUCLEAR POWER; REACTOR OPERATION; WWER TYPE REACTORS; REACTOR VESSELS; REACTOR SAFETY; RADIATION MONITORING; NEUTRON FLUENCE

Approaches to fast neutrons fluence control and calculation at WWER reactor vessels and experience of their use during procedures of monitoring the WWER equipment radiation load are described in the paper. Recommendations for monitoring the radiation load on WWER equipment are presented

Описаны подходы по учету и контролю флюенса быстрых нейтронов на корпусах реакторов ВВЭР, представлен опыт их использования в рамках процедуры мониторинга радиационной нагрузки оборудования реактора ВВЭР. Сформулированы рекомендации по проведению мониторинга радиационной нагрузки на оборудование ВВЭР

Modernization of fuel rod cladding tightness control technique at an operating reactor for determining fuel burnup in a leaky fuel assembly

S21;S22

Likhanskij, V.V.; Tokarev, S.A.; Vil'khivskaya, O.V. (AO GNTs RF TRINITI, Moscow, Troitsk (RU))

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Modernizatsiya metodiki KGO na rabotayushchem reaktore po opredeleniyu vygoraniya topliva negermetichnoj TVS

p. 20-23

(RU)

9 refs., 2 figs.

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatoma), Moscow (RU)

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2016
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NUCLEAR POWER; WWER TYPE REACTORS; REACTOR SAFETY; FUEL CYCLE; FUEL ASSEMBLIES; FUEL ELEMENT FAILURE; BURNUP

The authors present an improved technique for checking the tightness of fuel rod claddings at an operating reactor for determining the fuel burn-up of an unsealed fuel assembly. The results of calculations obtained with the help of the developed model and measurements at nuclear power plants showed higher values for the activity ratios of the radionuclides ^{137}Cs and ^{137}Cs compared to the ratio for fuel with enrichment up to 3.6%

Авторы представляют усовершенствованную методику контроля герметичности оболочек ТВЭЛов на работающем реакторе по определению выгорания топлива негерметичной ТВС. Результаты расчетов, полученных с помощью разрабатываемой модели, и измерения на АЭС показали более высокие значения для отношений активностей радионуклидов ^{137}Cs и ^{137}Cs по сравнению с отношением для топлива с обогащением до 3,6%

The results of the research of fuel elements of WWER-1000 reactors with increased uranium loading and a shell made of alloys E110 and E110opt based on sponge zirconium S22;S36

Zvir, E.A.; Zhitelev, V.A.; Stroz huk, A.V.; Shevlyakov, G.V.; Volkova, I.N.; Nikitin, O.N. (AO #Left-Pointing Double Angle Quotation Mark#GNTs NIAR#Right-Pointing Double Angle Quotation Mark#, Dimitrovgrad (RU))

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Rezul'taty issledovaniy tvehlov VVEhR-1000 s uvelichennoj zagruzkoj urana i obolochkoj iz splavov Eh110 i Eh110opt na osnove gubchatogo tsirkoniya
p. 23-30

(RU)
13 figs., 1 tab.

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatoma), Moscow (RU)
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800 p.

WWER TYPE REACTORS; FUEL ASSEMBLIES; BURNUP; FUEL-CLADDING INTERACTIONS; ALLOYS; ZIRCONIUM BASE ALLOYS

The authors present the results of the research of fuel elements of the WWER-1000 reactors with increased uranium loading and a shell of alloys E110 and E110opt based on sponge zirconium. These results showed that as concerned the main performance characteristics, the state of the fuel elements of the new design is not significantly different from the standard fuel rods. Tests of these samples are currently going on

Авторы представляют результаты исследований твэлов ВВЭР-1000 с увеличенной загрузкой урана и оболочкой из сплавов Э110 и Э110опт на основе губчатого циркония. Эти результаты показали, что по основным эксплуатационным характеристикам состояние твэлов новой конструкции по сравнению со штатными твэлами существенно не отличается. Испытания этих образцов в настоящее время продолжаются

The management strategy for severe beyond-design accident with fuel melting at NPP with WWER-reactors

S22
Zvonarev, Yu.A. (NITs #Left-Pointing Double Angle Quotation Mark#Kurchatovskij Inst.#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Strategiya upravleniya tyazhelej ZPA s plavlaniem topliva dlya AEhS s VVEhR

p. 30-35

(RU)

10 refs., 7 figs.

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NUCLEAR POWER PLANTS; WWER TYPE REACTORS; REACTOR SAFETY; REACTOR ACCIDENTS; SEVERE ACCIDENTS; BEYOND-DESIGN-BASIS ACCIDENTS; MELTING

The paper presents the results of a computational analysis in support of the choice of a strategy for managing a heavy, beyond design-basis accident with fuel melting for WWER reactor installations of various power. The cases of application in the NPP projects for this purpose of either an off-reactor melt localization device or the possibility of implementing a strategy of intra-vessel melt retention due to external cooling of the vessel

В работе представлены результаты расчетного анализа в обоснование выбора стратегии управления тяжелой запроектной аварией с плавлением топлива для реакторных установок ВВЭР различной мощности. Рассмотрены случаи применения в проектах АЭС для этой цели, либо вне реакторного

устройства локализации расплава, либо возможности реализации стратегии внутрикорпусного удержания расплава за счет наружного охлаждения корпуса

A set of operations to substantiate the operational suitability of the containment of the Rostov NPP Unit 3

S22

Sal'nikov, A.A. (Rostovskaya AEhS, Volgodonsk (RU)); Medvedev, V.N.; Kiselev, A.S.; Kiselev, A.S.; Ulyanov, A.N.; Strizhov, V.F. (Inst. Problem Bezopasnogo Razvitiya Atomnoj Ehnergetiki, Moscow (RU))

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Kompleks rabot po obosnovaniyu ehkspluatatsionnoj prigodnosti zashchitnoj obolochki ehnergobloka #Numero Sign#3 Rostovskoj AEhS

p. 36-41

(RU)

5 refs., 3 figs., 1 tab.

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatom), Moscow (RU)

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NUCLEAR POWER PLANTS; ROSTOV-3 REACTOR; REACTOR COMMISSIONING; REACTOR OPERATION; REACTOR SAFETY; CONTAINMENT; REACTOR MONITORING SYSTEMS

The paper presents a set of operations to substantiate the operational suitability of the containment of the Rostov NPP, Unit 3. The main results of these works are described in the period of erection, pre-stress and acceptance tests of the unit, which made it possible to determine its technical condition

В работе представлен комплекс работ по обоснованию эксплуатационной пригодности защитной оболочки третьего энергоблока Ростовской АЭС. Приведены основные результаты этих работ в период возведения, преднапряжения и приемо-сдаточных испытаний блока, позволившие определить ее техническое состояние

Integrated diagnostics of WWER-type reactors

S22

Kalinushkin, A.E.; Semchenkov, Yu.M. (NITs #Left-Pointing Double Angle Quotation Mark#Kurchatovskij Inst.#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Pavelko, V.I.; Finkel', B.M. (#Left-Pointing Double Angle Quotation Mark#Nauchno-Tehnicheskij Tsentr #Left-Pointing Double Angle Quotation Mark#Diaprom#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Kompleksnoe diagnostirovanie VVEhR

p. 41-46

(RU)

9 refs., 6 figs., 1 tab.

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NUCLEAR POWER PLANTS; WWER TYPE REACTORS; REACTOR OPERATION; REACTOR SAFETY; REACTOR MONITORING SYSTEMS; DIAGNOSTIC TECHNIQUES; ACOUSTIC MONITORING

The report presents a list of operations on integrated diagnostics (ID) of WWER-type reactors. The authors show that in addition to the traditional tasks of mapping, archiving, documenting and alerting ID systems, other specific diagnostic tasks are being solved: increasing the efficiency of diagnostic systems installed at NPPs; maintaining a single database of diagnostic information

В докладе представлен список работ по комплексному диагностированию (КД) реакторов ВВЭР. Авторы показывают, что помимо традиционных задач отображения, архивизации, документирования и оповещения систем КД, решаются другие специфические диагностические задачи: повышение эффективности установленных на АЭС систем диагностирования; ведение единой базы данных диагностической информации

The concept of installing alarm systems and presenting the operator with up-to-date information

S22

Ljul'chak, V.V.; Bajkov, D.S.; Turetskov, K.V. (Moskovskij Filial #Left-Pointing Double Angle Quotation Mark#Tsentratomtekhehnergo#Right-Pointing Double Angle Quotation Mark# AO #Left-Pointing Double Angle Quotation Mark#Atomtekhehnergo#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Angle Quotation Mark#

Kontseptsiya realizatsii signalizatsii i predstavlenie operatoru aktual'noj informatsii

p. 46-51

(RU)

5 refs., 7 figs., 3 tabs.

Rosehnergoatom (Ehlektröhnergeticheskij Divizion Rosatoma), Moscow (RU)
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NUCLEAR POWER PLANTS; REACTOR SAFETY; REACTOR MONITORING SYSTEMS; ALARM SYSTEMS; DIAGNOSTIC TECHNIQUES; PERSONNEL; NUCLEAR OPERATORS

The paper describes models of alarm systems at NPPs, presents the role of operators in ensuring the safety systems of plant equipment, as well as the model of operator interaction with the alarm system

В работе описаны модели систем сигнализации на АЭС, представлена роль операторов в обеспечении систем безопасности оборудования станций, а также модель взаимодействия оператора с системой сигнализации

The results of a study of a leaky fuel element with a pellet without a central hole, spent in the ALPHA fuel assemblies to burn-up 41 MW#Multiplication Sign#day/kgU

S22

Shevlyakov, G.V.; Volkova, I.N.; Zvir, E.A.; Zhitelev, V.A.; Strozhuik, A.V.; Nikitin, O.N. (AO #Left-Pointing Double Angle Quotation Mark#GNTs NIAR#Right-Pointing Double Angle Quotation Mark#, Dimitrovgrad (RU))

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Rezul'taty issledovaniya negermetichnogo tvehla s tabletkoj bez tsentral'nogo otverstiya, otrabotavshego v sostave TVSA-AL'FA do vygoraniya 41 MVt#Multiplication Sign#sut/kgU

p. 51-55

(RU)

12 figs.

Rosehnergoatom (Ehlektröhnergeticheskij Divizion Rosatoma), Moscow (RU)
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NUCLEAR POWER; REACTOR SAFETY; FUEL ASSEMBLIES; FUEL ELEMENT FAILURE; BURNUP; NONDESTRUCTIVE TESTING; FUEL PELLETS

The paper have shown that the main changes in the fuel structure of a leaky fuel rod were observed in the central part of the fuel pellet, where there was an increase in pore concentration and an exit from the fuel matrix of xenon and cesium. According to the results of gamma scanning, a yield of 6% cesium was recorded in the coolant. No fuel erosion registered

Исследования показали, что основные изменения в структуре топлива негерметичного ТВЭЛА наблюдались в центральной части топливной таблетки, где было выявление увеличение концентрации пор и выход из топливной матрицы ксенона и цезия. По результатам гамма-сканирования зафиксирован выход 6% цезия в теплоноситель. Вымывание топлива не зарегистрировано

Problems and prospects of movement to zero level of failures and mitigation of consequences of nuclear fuel failures at NPPs with WWER reactors

S22

Shestakov, Yu.M.; Semenovych, A.S. (AO #Left-Pointing Double Angle Quotation Mark#VNIAEhS#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

10th International scientific-technical conference #Left-Pointing Double Angle Quotation Mark#Safety, efficiency and economics of nuclear energy#Right-Pointing Double Angle Quotation Mark#

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Problemy i perspektivy dvizheniya k nulevomu urovnyu otkazov i oslablenie posledstvij otkazov yadernogo topliva na AEhS s reaktorami VVEhR

p. 56-66

(RU)

5 refs., 17 figs.

Rosehnergoatom (Ehlektrohnergeticheskij Divizion Rosatoma), Moscow (RU)

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Plenarnye i sektionnye doklady

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800 p.

NUCLEAR POWER PLANTS; WWER TYPE REACTORS; REACTOR OPERATION; REACTOR SAFETY; REACTOR MONITORING SYSTEMS; NUCLEAR FUELS; FUEL ELEMENT FAILURE

The authors describe the concept of the project #Left-Pointing Double Angle Quotation Mark#Movement towards zero nuclear fuel failure#Right-Pointing Double Angle Quotation Mark# in Russia, which will improve the radiation safety and economic efficiency of NPPs by improving the reliability of nuclear fuel and reducing the dose and the amount of radioactive wastes

Авторы описывают концепцию проекта #Left-Pointing Double Angle Quotation Mark#Движение к нулевому отказу ядерного топлива#Right-Pointing Double Angle Quotation Mark# в России, которая позволит повысить радиационную безопасность и экономическую эффективность АЭС благодаря повышению надежности ядерного топлива и снижению дозозатрат и уменьшению количества радиоактивных отходов

Assessment of the results of geotechnical conditions monitoring in the areas and sites of Russian NPPs

S22

Bugaev, E.G.; Gusel'tsev, A.S.; Fikhieva, L.M.; Malofeev, A.A. (Nauchno-Tekhnicheskij Tsentr po Yadernoj i Radiacionnoj Bezopasnosti (FBU #Left-Pointing Double Angle Quotation Mark#NTTs YaRB#Right-Pointing Double Angle Quotation Mark#), Moscow (RU))

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Otsenka rezul'tatov monitoringa geotekhnicheskikh uslovij v rajonakh i na ploshchadkakh AEhS Rossii p. 66-69

(RU)

9 refs., 2 tabs.

Rosehnergoatom (Ehлектроehnergeticheskij Divizion Rosatoma), Moscow (RU)

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NUCLEAR POWER PLANTS; REACTOR SAFETY; REACTOR MONITORING SYSTEMS; GEOLOGIC SURVEYS; ENVIRONMENTAL IMPACTS; TECHNOLOGY IMPACTS

The authors assess the effectiveness of technical and organizational measures aimed at ensuring safety in the event of exposure of nuclear facilities to hazardous processes and factors of natural and industrial origin. Monitoring of physical and mechanical properties of soils is carried out both during the construction period and is prolonged for the entire life cycle of nuclear power plants

Авторы дают оценку эффективности проведения технических и организационных мероприятий, направленных на обеспечение безопасности в случае воздействия опасных процессов, явлений и факторов природного и техногенного происхождения. Мониторинг физико-механических свойств грунтов проводится как в строительный период, так и пролонгируется на весь жизненный цикл АЭС

Topical issues of organizing the operation of synthetic flame-retardant oils in oil systems of NPP equipment

S22

Galimova, L.A.; Celeznev, D.V.; Ambartsumyan, S.G. (AO #Left-Pointing Double Angle Quotation

Mark#EhNITs#Right-Pointing Double Angle Quotation Mark#, Ehlektrogorsk (RU))

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Aktual'nye voprosy organizatsii ehkspluatatsii sinteticheskikh ognestojkikh masel v maslosistemakh oborudovaniya AEhS

p. 70-74

(RU)

7 refs., 5 figs.

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatoma), Moscow (RU)

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NUCLEAR POWER PLANTS; EQUIPMENT; TURBINES; REACTOR SAFETY; REACTOR OPERATION; SYNTHETIC MATERIALS

The paper presents the results of a survey and analysis of the effectiveness of the operation of fire-resistant fluids in the oil systems of turbine units of Kalinin and Kola NPPs in 2014-2015

В работе представлены результаты обследования и анализа эффективности эксплуатации огнестойких жидкостей в маслосистемах турбоагрегатов Калининской и Кольской АЭС в 2014-2015 гг

Development of a pressure cycling technique for establishing the criterion for leaky fuel assembly failure

S21;S22

Likhanskij, V.V.; Evdokimov, I.A.; Sorokin, A.A.; Zborovskij, V.G.; Kanyukova, V.D.; Kolesnik, M.Yu.; Afanas'eva, E.Yu. (AO #Left-Pointing Double Angle Quotation Mark#GNTs RF TRINITI#Right-Pointing Double Angle Quotation Mark#, Moscow, Troitsk (RU)); Shestakov, Yu.M.; Semenovych, A.S. (AO #Left-Pointing Double Angle Quotation Mark#VNIAEhS#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Razvitie metodiki tsiklirovaniya davleniya dlya ustanovleniya kriteriya otkaza negermetichnoj TVS

p. 74-80

(RU)

6 refs., 2 figs., 1 tab.

Rosehnergoatom (Ehлектроehnergeticheskij Divizion Rosatoma), Moscow (RU)
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 800 p.

NUCLEAR POWER; REACTOR SAFETY; FUEL ASSEMBLIES; FUEL PELLETS; FUEL ELEMENT FAILURE; WWER TYPE REACTORS; LEAK TESTING

Authors have described the development of a pressure cycling technique for establishing the criterion for leaky fuel assembly failure. The developed failure criteria are justified on a sample of more than 150 fuel assemblies of the WWER-1000 reactor

В данной работе рассмотрено применение методики пенального контроля герметичности оболочек твэлов с циклированием давления для установления дополнительных критериев отказа топливных сборок по негерметичности твэлов. Разработанные критерии отказа обоснованы на выборке из более 150 топливныхборок реактора ВВЭР-1000

Identification and analysis of the main factors affecting the level of fuel depressurization at WWER-1000 power units within the framework of the project #Left-Pointing Double Angle Quotation Mark#Movement to zero nuclear fuel failure#Right-Pointing Double Angle Quotation Mark#

S22

Evdokimov, I.A.; Likhanskij, V.V.; Afanas'eva, E.Yu.; Kanyukova, V.D.; Kozhakin, A.N.; Maslova, L.A.; Chernetskij, M.G.; Zborovskij, V.G.; Sorokin, A.A. (GNTs RF TRINITI, Moscow, Troitsk (RU))

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Vyyavlenie i analiz osnovnykh faktorov, vliyayushchikh na uroven' razgermetizatsii topliva na ehnergoblokakh VVEhR-1000, v ramkakh proekta #Left-Pointing Double Angle Quotation Mark#Dvizhenie k nulevomu otkazu yadernogo topliva#Right-Pointing Double Angle Quotation Mark#

p. 81-86

(RU)

4 refs., 6 figs.

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2016
800 p.

WWER TYPE REACTORS; REACTOR OPERATION; REACTOR SAFETY; REACTOR MONITORING SYSTEMS; NUCLEAR FUELS; FUEL ELEMENT FAILURE; DEPRESSURIZATION

The authors describe the project #Left-Pointing Double Angle Quotation Mark#Movement towards zero nuclear fuel failure#Right-Pointing Double Angle Quotation Mark#, which will improve the radiation safety and economic efficiency of NPPs by improving the reliability of nuclear fuel and reducing the amount of radioactive wastes. The report presents the main results of the work carried out within the framework of the project

Авторы описывают проект #Left-Pointing Double Angle Quotation Mark#Движение к нулевому отказу ядерного топлива#Right-Pointing Double Angle Quotation Mark#, который позволит повысить радиационную безопасность и экономическую эффективность АЭС благодаря повышению надежности ядерного топлива и уменьшению количества радиоактивных отходов. В докладе приведены основные результаты работ, проведенных в рамках проекта

Cleaning of condensate from organic impurities for use in the coolant feeding system of the primary circuit of NPPs with WWER reactors

S21;S22

Povarov, V.P.; Shchedrin, M.G.; Vorob'ev, S.A. (Novovoronezhskaya AEhS, Novovoronezh (RU)); Tyapkov, V.F. (AO #Left-Pointing Double Angle Quotation Mark#VNIAEhS, Moscow (RU)); Izyumov, S.V.; Adamovich, V.A.; Shchekotov, E.Yu.; Shchekotov, D.E. (OOO ITTs #Left-Pointing Double Angle Quotation Mark#Kompleksnye Issledovaniya#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Ochistka kondensata ot organicheskikh primesej dlya ispol'zovaniya v sisteme podpitki teplonosatelya pervogo kontura AEhS s reaktorami VVEhR

p. 86-91

(RU)

6 refs., 8 figs.

Rosehnergoatom (Ehlektrohnergeticheskij Divizion Rosatoma), Moscow (RU)
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2016
800 p.

NUCLEAR POWER PLANTS; WWER TYPE REACTORS; REACTOR SAFETY; CONDENSATES; PURIFICATION; CONTAMINATION

The authors describe the experience of operating an installation for the destruction of organic compounds in a condensate using Advanced Oxidation Technology based on processes using ultraviolet radiation and hydrogen peroxide

Авторы описывают опыт эксплуатации установки по деструкции органических соединений в конденсате с применением технологии Advanced Oxidation Technology на основе процессов, использующих ультрафиолетовое излучение и перекись водорода

The development and design-basis justification of the in-vessel melt retention system for operating and projected NPPs with WWER reactors

S21;S22

Pant'yushin, S.I.; Gasparov, D.L.; Bukin, N.V. (AO OKB #Left-Pointing Double Angle Quotation Mark#GIDROPRESS#Right-Pointing Double Angle Quotation Mark#, Podol'sk (RU)) (and others)

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O razrabotke i raschetnom obosnovanii sistemy vnutrikorpusnogo uderzhaniya rasplava dlya dejstvuyushchikh i proektiruemykh AEhS s RU VVEhR

p. 91-98

(RU)

15 refs., 5 figs., 1 tab.

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WWER TYPE REACTORS; REACTOR CORES; SEVERE ACCIDENTS; REACTOR SAFETY; REACTOR ACCIDENTS; MELTDOWN

The paper presents a system of in-vessel melt retention for operating and projected NPPs with WWER reactors. Authors describe the application of the concept of in-vessel melt retention, which has a number of significant advantages over other systems, primarily in terms of reducing the power unit's costs and the construction time period

В работе представлена система внутрикорпусного удержания расплава для действующих и проектируемых АЭС с реакторами ВВЭР, описано применение концепции внутрикорпусного удержания расплава, обладающей рядом существенных преимуществ по сравнению с другими системами, прежде всего, с точки зрения снижения стоимости энергоблока и сроков его возведения

On testing and certification of pipeline valves in JSC #Left-Pointing Double Angle Quotation Mark#EhNITs#Right-Pointing Double Angle Quotation Mark# S21;S22

Gashenko, V.A.; Labykin, I.S.; Brus, N.A.; Murav'ev, E.V.; Sergeev, S.V. (AO #Left-Pointing Double Angle Quotation Mark#EhNITs#Right-Pointing Double Angle Quotation Mark#, Ehlektrogorsk (RU))

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Ob ispytanii i sertifikatsii truboprovodnoj armatury v AO #Left-Pointing Double Angle Quotation Mark#EhNITs#Right-Pointing Double Angle Quotation Mark#

p. 98-102

(RU)

4 figs.

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NUCLEAR POWER PLANTS; WWER TYPE REACTORS; EQUIPMENT; PRESSURE VESSELS; PIPE FITTINGS; PIPELINES; CERTIFICATION

The work describes the equipment of the company, that must be tested and certified: installations (facilities) for thermal, mechanical and thermal-hydraulic testing and research, implemented in the nominal, transient and emergency modes of NPP operations. The characteristics of this equipment are also given

В работе описано оборудование компании, которое должно быть подвергнуто испытанию и сертификации: установки (стенды) для проведения тепломеханических и тепло-гидравлических испытаний и исследований, реализующихся в номинальных, переходных и аварийных режимах работы АЭС. Даны характеристики этого оборудования

The main directions of RBMK reactors resource management

S22

Slobodchikov, A.V.; Shlenov, A.V.; Mikhal'chenko, A.P.; Reshetin, V.L. (AO #Left-Pointing Double Angle Quotation Mark#NIKIEhT#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Angle Quotation Mark#

Osnovnye napravleniya upravleniya resursnymi kharakteristikami RU RBMK

p. 103-105

(RU)

3 refs., 1 fig., 4 tabs.

Rosehnergoatom (Ehlektröhnergeticheskij Divizion Rosatoma), Moscow (RU)

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NUCLEAR POWER; LWGR TYPE REACTORS; RESOURCE MANAGEMENT; REACTOR SAFETY;
REACTOR CORES; REACTOR MAINTENANCE; REACTOR OPERATION

The paper specifies the main directions of RBMK reactor resource management, lists the control and parameter monitoring systems that determine the state of reactor facility, and methods of recovery. The results of the control of core components implemented in 2015 are also defined

В работе показаны основные направления управления ресурсными характеристиками реакторов РБМК российских АЭС, представлены системы контроля и мониторинга параметров, определяющих состояние реакторных установок, и методы восстановления. Также даны результаты контроля состояния элементов активной зоны в 2015 г

The problems of modeling the graphite stack deformation in RBMK reactors

S22

Fedosov, A.M. (NITs #Left-Pointing Double Angle Quotation Mark#Kurchatovskij Inst.#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Angle Quotation Mark#

Problemy modelirovaniya formoizmeneniya grafitovoj kladki RBMK

p. 106-110

(RU)

4 refs., 5 figs.

Rosehnergoatom (Ehlektröhnergeticheskij Divizion Rosatoma), Moscow (RU)

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NUCLEAR POWER; LWGR TYPE REACTORS; RESOURCE MANAGEMENT; REACTOR SAFETY;
REACTOR CORES; GRAPHITE

The authors try to give the most accurate forecast for the formation of graphite stack in the RBMK reactor core, which is determined not only by the degree of complexity and detail of the computer model, but also, to a greater extent, the completeness and accuracy of the original data. Some information necessary for calculations is either inaccessible or not accurate. The authors emphasize that the results of calculations strongly depend on a number of parameters used as input data

Авторы пытаются дать наиболее точный прогноз формоизменения графитовой кладки в активной зоне реактора РБМК, который определяется не только степенью сложности и детализации компьютерной модели, но и, в большей степени, полнотой и точностью исходных данных. Некоторая информация, необходимая для расчетов, либо недоступна, либо не точна. Авторы утверждают, что результаты расчетов сильно зависят от ряда параметров, используемых в качестве исходных данных

Control systems of reactor RBMK-1000 graphite stack distortion on the basis of fiber-optic sensors

S22
Vorona, S.I.; Mikhal'tsov, A.V.; Fedorov, A.N.; Shevtsov, I.A. (OOO #Left-Pointing Double Angle Quotation Mark#Prolog#Right-Pointing Double Angle Quotation Mark#, Obninsk (RU))

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Sistemy kontrolya iskrivleniya GK RU RBMK-1000 na osnove optovolokonnykh sensorov

p. 110-112

(RU)

2 figs.

Rosehnergoatom (Ehлектроehnergeticheskij Divizion Rosatoma), Moscow (RU)
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AO Kontsern Rosehnergoatom
2016
800 p.

NUCLEAR POWER PLANTS; LWGR TYPE REACTORS; FUEL ASSEMBLIES; REACTOR SAFETY;
REACTOR CORES; GRAPHITE; CRYSTAL DEFECTS; FIBER OPTICS; SENSORS

Authors present control systems that monitor the graphite stack distortion in cores of reactor RBMK-1000. The systems are made on the basis of fiber-optic sensors. The sensors are Bragg lattices: periodic nanostructures deposited on quartz optical fibers that reflect light of a certain wavelength

Авторы представляют системы, контролирующие искривление графитовых решеток в активной зоне реактора РБМК-1000. Системы выполнены на основе волоконно-оптических датчиков. Сенсоры представляют собой решетки Брэгга - периодические наноструктуры, нанесенные на кварцевое оптоволокно, которые отражают свет определенной длины волны

Neutron and physical modules for fuel elements calculation with the aid of the GEFEST complex

S21;S22

Belov, A.A.; Belousov, V.I.; Seleznev, E.F. (IBRAEh RAN, Moscow (RU)); Drobyshev, Yu.Yu. (AO #Left-Pointing Double Angle Quotation Mark#VNIAEhS#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Nejtronno-fizicheskie moduli potvehl'nogo rascheta kompleksa GEFEST

p. 112-117

(RU)

4 refs., 10 figs., 4 tabs.

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POWER REACTORS; FAST REACTORS; BELOYARSK-3 REACTOR; FUEL ASSEMBLIES; REACTOR CORES; CONTROL ELEMENTS; BURNUP

Authors present a set of GEFEST programs for three-dimensional neutron-physical reactor calculations. It is designed to justify the safe operation of fast sodium reactors with uranium and uranium-plutonium fuel through neutron-physical calculations. The GEFEST complex is also designed for calculating the modes of normal operating conditions for fast reactors

В работе описан комплекс программ ГЕФЕСТ для трехмерных нейтронно-физических расчетов реактора. Он предназначен для обоснования безопасной эксплуатации быстрых натриевых реакторов с урановым и уран-плутониевым топливом через проведение нейтронно-физических расчетов. Комплекс ГЕФЕСТ также предназначен для расчетов режимов нормальных условий эксплуатации быстрых реакторов

Experience in commissioning the BN-800 reactor core diagnostics system

S22

Dvornikov, P.A.; Kovtun, S.N.; Kudryaev, A.A.; Kondratovich, F.V.; Luk'yanov, D.A.; Anan'ev, A.A.; Yugov, S.I. (GNTs RF-FEhI, Obninsk (RU)); Danilenko, V.P.; El'shina, N.V. (NITI imeni A.P. Aleksandrova, Sosnovyj

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Opyt vvoda v ehkspluatatsiyu sistemy diagnostirovaniya aktivnoj zony RU BN-800

p. 118-125

(RU)

5 refs., 21 figs., 1 tab.

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NUCLEAR POWER; FAST REACTORS; BN-800 REACTOR; REACTOR CORES; REACTOR COMMISSIONING; REACTOR OPERATION; REACTOR SAFETY

The experience of commissioning the diagnostic system (SD) of the reactor core of the BN-800 reactor is presented in the paper. The data and results obtained during the trial operation will be used to refine the diagnostic algorithms and expand the functionality of the SD

В работе представлен опыт ввода в эксплуатацию системы диагностирования (СД) активной зоны реакторной установки БН-800. Полученные на этапе опытной эксплуатации данные и результаты будут использованы для уточнения алгоритмов диагностирования и расширения функциональных возможностей СД

Prospects for the development of the BN-800 reactor core

S22

Vasil'ev, B.A.; Farakshin, M.R.; Belov, S.B.; Kuznetsov, A.E. (AO #Left-Pointing Double Angle Quotation Mark#OKBM Afrikantov#Right-Pointing Double Angle Quotation Mark#, Nizhnij Novgorod (RU))

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Perspektivy razvitiya aktivnoj zony reaktora BN-800

p. 126-130

(RU)

9 refs., 3 figs., 5 tabs.

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NUCLEAR POWER; FAST REACTORS; BN-800 REACTOR; REACTOR CORES; REACTOR
 COMMISSIONING; FUEL ASSEMBLIES; MIXED OXIDE FUELS

The authors describe the prospects for the development of the BN-800 reactor core. This report provides information on the change in the state of the core at the initial stage of operation from the launching core to the formation of the core with full load of MOX-fuel and on the subsequent stages of improving fuel efficiency in the BN-800 reactor

Авторы описывают перспективы развития активной зоны реактора БН-800. В настоящем докладе дана информация об изменении состояния активной зоны на начальном этапе эксплуатации от стартовой активной зоны до формирования активной зоны с полной загрузкой МОКС-топливом и о последующих этапах повышения эффективности использования топлива в реакторе БН-800

Precision calculations of neutron and physical characteristics of RBMK-1000 reactors by the Monte Carlo method

S22;S97

Alimov, Yu.V.; Davydov, V.K.; Zhirnov, A.P.; Rozhdestvenskij, I.M.; Sakharova, T.Yu.; Yufereva, V.A.
 (NIKIEhT AO, Moscow (RU))

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Pretsizionnye raschety nejtronno-fizicheskikh kharakteristik reaktorov RBMK-1000 metodom Monte-Karlo
 p. 130-133

(RU)

4 refs., 9 figs., 2 tabs.

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NUCLEAR POWER; LWGR TYPE REACTORS; LENINGRAD-1 REACTOR; CALCULATION METHODS; MONTE CARLO METHOD; NEUTRON PHYSICS

Precision calculations have been made using experimental results obtained at physical and energy power levels at the Kursk, Leningrad and Smolensk NPPs power units. The results of verification studies of the determination of neutron and physical characteristics important for the physics of RBMK-1000 reactors

Прецизионные расчеты проведены по экспериментальным результатам, полученным на физических и энергетических уровнях мощности на энергоблоках Курской, Ленинградской и Смоленской АЭС. Представлены результаты верификационных исследований определения нейтронно-физических характеристик, важных для физики реакторов РБМК-1000

The application of improved calculation codes for an independent safety review of the fast neutron reactors with a liquid metal coolant

S22;S97

Danicheva, I.A.; Ivanov, V.S.; Khrennikov, N.N. (FBU #Left-Pointing Double Angle Quotation Mark#NTTs YaRB#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Malofeev, V.M. (RNTs #Left-Pointing Double Angle Quotation Mark#Kurchatovskij Inst.#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Primenenie kodov uluchshennoj otsenki dlya nezavisimoy ehkspertizy obosnovanij bezopasnosti reaktorov na bystrykh nejtronakh s zhidkometallicheskim teplonositelem

p. 134-137

(RU)

13 refs., 3 figs., 3 tabs.

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FAST REACTORS; REACTOR SAFETY; SAFETY ANALYSIS; RISK ASSESSMENT; LIQUID METALS; COMPUTER CODES; VERIFICATION

The authors have carried out a series of calculations for verification of Monte Carlo codes SCALE and SERPENT, as well as two deterministic codes DYN3D and BARS for the calculation of fast neutron reactors with liquid metal coolant. At this stage, verification has been carried out for systems with sodium coolant

Авторы статьи провели серию расчетов по верификации кодов Монте-Карло SCALE и SERPENT, а также двух детерминистских кодов DYN3D и BARS для расчетов реакторов на быстрых нейтронах с жидкометаллическим теплоносителем. На данном этапе верификация проводилась для систем с натриевым теплоносителем

The application of the GEFEST800 software package for operational calculations of neutron and physical characteristics of BN-800 reactor

S22;S97

Seleznev, E.F.; Belov, A.A.; Belousov, V.I. (IBRAEh RAN, Moscow (RU)) (and others)

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Ispol'zovanie kompleksa programm GEFEST800 dlya provedeniya ehkspluatatsionnykh raschetov nejtronno-fizicheskikh kharakteristik RU BN-800

p. 137-142

(RU)

5 refs., 2 figs., 8 tabs.

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NUCLEAR POWER; FAST REACTORS; BN-800 REACTOR; SODIUM COOLED REACTORS; CALCULATION METHODS; COMPUTER CALCULATIONS

The GEFEST800 programs calculate the reactivity effects using the feedback algorithm for thermomechanics. The results of measurements of the temperature and power coefficients of reactivity of the BN-600 reactor demonstrated a decrease in the deviation of the calculation results from the experimental data

Программы ГЕФЕСТ800 осуществляют расчет эффектов реактивности с использованием алгоритма учета обратных связей по термомеханике. На результатах измерений температурного и мощностного коэффициентов реактивности реактора БН-600 было продемонстрировано уменьшение отклонения результатов расчетов от экспериментальных данных

Sensors for in-reactor control of hydrogen and oxygen in sodium

S22

Blokhin, V.A.; Borisov, V.V.; Kamaev, A.A.; Meshakin, V.I.; Pakhomov, I.A.; Poplavskij, V.M.; Suvorov, A.A.

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Datchiki dlya vnutrireaktornogo kontrolya vodoroda i kisloroda v natrii
p. 143-147
(RU)
4 refs., 12 figs., 2 tabs.

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NUCLEAR POWER; SODIUM COOLED REACTORS; REACTOR SAFETY; RADIATION MONITORING; MEASURING INSTRUMENTS; REACTOR CONTROL SYSTEMS

Sensors for in-reactor control of hydrogen and oxygen in sodium are described in the paper. Both sensors monitor the change of non-metallic impurities in the coolant. It is noted that the oxygen sensor reacts more quickly to a change in the impurity composition of the coolant than the hydrogen one

Описаны датчики для внутриреакторного контроля водорода и кислорода в натрии. Оба датчика отслеживают изменение неметаллических примесей в теплоносителе. Отмечается, что кислородный датчик быстрее реагирует на изменение примесного состава теплоносителя, чем водородный датчик

RBMK core subcriticality in a complete blackout accident at the nuclear power unit S22;S97

Geraskin, I.N.; Krayushkin, A.V. (NITs #Left-Pointing Double Angle Quotation Mark#Kurchatovskij Inst.#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))
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Podkritichnost' RBMK v avarii s polnym obestochivaniem ehnergobloka
p. 147-150
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NUCLEAR POWER PLANTS; REACTOR SAFETY; REACTOR ACCIDENTS; STATION BLACKOUT;
CRITICALITY; COMPUTER CODES; COMPUTERIZED SIMULATION

The paper shows the possibility of controlling subcriticality during an accident. Changes in subcriticality during the heating of the reactor can be monitored with the aid of extra-zonal neutron sensors, which can also allow determining the moments of reaching certain temperature levels in the core

В работе показана возможность контроля подкритичности в ходе аварии. Изменения подкритичности в ходе разогрева реактора могут отслеживаться с помощью внезонных нейтронных датчиков, что может позволить также определять моменты достижения в активной зоне определенных уровней температур

Analysis of reasons of damaging the RBMK-1000 fuel assemblies' spacer grids made of corrosion-resistant steel

S22

Slobodchikov, A.V.; Cherepnin, Yu.S.; Ivanov, A.V.; Artsybashev, A.A.; Dmitrieva, I.A.; Zaporozhets, M.V. (AO #Left-Pointing Double Angle Quotation Mark#NIKIEhT#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Analiz prichin povrezhdaemosti DR TVS RBMK-1000, izgotovlennykh iz korrozionnostojkoy stali
p. 150-157

(RU)

4 refs., 7 figs., 3 tabs.

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NUCLEAR POWER; REACTOR SAFETY; LENINGRAD-1 REACTOR; FUEL ASSEMBLIES;
STAINLESS STEELS; CORROSION RESISTANCE

The paper demonstrates the increased damageability of grid spacers (GS) of fuel assemblies (FA) located in the process of operation in the middle part of the core: the lower GS of the upper fuel bundle (FB) and the upper GS of the lower FB. It is shown that damage to GSs is of threshold nature: defects are fixed on FAs that have achieved energy production of 2100 MW#Multiplication Sign#day/FA and more

В работе продемонстрирована повышенная повреждаемость дистанционирующих решеток (ДР) тепловыделяющих сборок (ТВС), располагающихся в процессе эксплуатации в районе средней плоскости активной зоны: нижняя ДР верхнего пучка твэлов (ПТ) и верхняя ДР нижнего ПТ. Показано, что повреждение ДР носит пороговый характер: дефекты фиксируются на ТВС, достигших энерговыработки 2100 МВт#Multiplication Sign#сут/ТВС и более

The ODETTA code testing in reactor protection experiments

S22;S97

Seleznev, E.F.; Sychugova, E.P.; Belousov, V.I.; Seleznev, S.A. (IBRAEh RAN, Moscow (RU))

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Aprobatsiya koda ODETTA na ehksperimentakh po zashchite reaktora

p. 157-161

(RU)

12 refs., 7 figs., 2 tabs.

Rosehnergoatom (Ehлектроehnergeticheskij Divizion Rosatoma), Moscow (RU)

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800 p.

FAST REACTORS; REACTOR SAFETY; SAFETY ANALYSIS; RISK ASSESSMENT; COMPUTER CODES; VERIFICATION; FORTRAN

The authors described the results of the ODETTA code testing in reactor protection experiments. Calculations show that the calculated and experimental data in experiments, both with steel and with graphite, agree satisfactorily. At succeeding verifications, the ODETTA code can be used to assess both the nuclear and radiation safety of a simulated object

Авторы описали результаты опробования кода ODETTA для обcчета экспериментов по защите реактора. Расчеты показывают, что расчетные и экспериментальные данные в экспериментах, как со сталью, так и с графитом, согласуются удовлетворительно. Код ODETTA при последующей верификации может быть использован для оценок как ядерной, так и радиационной безопасности моделируемого объекта

Experience in commissioning the sectoral system for monitoring the tightness of fuel rod claddings at BN-600 and BN-800 reactor facilities

S22

Dvornikov, P.A.; Bogomolov, V.N.; Kovtun, S.N. (AO GNTs RF - FEhI im. A.I. Lejpunskogo, Obninsk (RU)) (and others)

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Opyt vvoda v ehkspluatatsiyu sektornoj sistemy kontrolya germetichnosti obolochek tvehlov RU BN-600 i RU BN-800

p. 162-164

(RU)

3 refs., 5 figs., 1 tab.

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatoma), Moscow (RU)

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FAST REACTORS; BELOYARSK-3 REACTOR; BN-800 REACTOR; REACTOR SAFETY; CLADDING; FUEL ASSEMBLIES; FUEL-COOLANT INTERACTIONS

The sectoral fuel cladding tightness control system (SFCTCS) is an important safety system for the reactor. At present, the SFCTCSs of BN-600 and BN-800 reactors are in test operation at units 3 and 4 of the Beloyarsk NPP. The research engineers scientifically and technically support the systems operation

Секторная система контроля герметичности оболочек твэлов (ССКГО) является системой, важной для безопасности реакторной установки. В настоящее время системы ССКГО РУ БН-600 и РУ БН-800 находятся в опытной эксплуатации на 3 и 4 блоках Белоярской АЭС, со стороны разработчиков осуществляется научная и техническая поддержка эксплуатации систем

Analysis of operational experience of the BN-600 reactor in the period from 2010, and the achieved level of equipment reliability**S22***Vasil'ev, B.A.; Staroverov, A.I.; Bylov, I.A.; Farakshin, M.R.; Kereksha, A.V. (AO OKBM im. I.I. Afrikantova, Nizhny Novgorod (RU))***10th International scientific-technical conference #Left-Pointing Double Angle Quotation****Mark#Safety, efficiency and economics of nuclear energy#Right-Pointing Double Angle Quotation Mark#**

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Analiz opyta ehkspluatatsii reaktora BN-600 v period s 2010 goda i dostignutyj uroven' nadezhnosti oborudovaniya

p. 165-170

(RU)

6 refs., 4 figs., 3 tabs.

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NUCLEAR POWER; REACTOR OPERATION; BELOYARSK-3 REACTOR; REACTOR SAFETY;
REACTOR VESSELS; REACTOR CORES; FUEL ASSEMBLIES

The article presents the Beloyarsk NPP power unit with the BN-600 reactor commissioned in April 1980. The reliability and safety indicators of the power unit are given. The operation of the equipment of the reactor plant, the reactor vessel, the in-reactor equipment and the core are also described

В статье представлен энергоблок Белоярской АЭС с реактором БН-600, введенный в эксплуатацию в апреле 1980 г. Даны показатели надежности и безопасности энергоблока. Описана эксплуатация оборудования реакторной установки, корпуса реактора, внутриреакторного оборудования и активной зоны

Operational calculations of the core parameters during the RBMK-1000 process channels overloading at the energy level of power

S21;S22

*Aleksandrov, S.I.; Sviridenkov, A.N.; Yakunin, I.S. (AO #Left-Pointing Double Angle Quotation
Mark#NIKIEhT#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))*

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Operativnye raschety parametrov aktivnoj zony v protsesse peregruzki TK RBMK-1000 na
ehnergeticheskom urovne moshchnosti

p. 170-174

(RU)

3 refs., 6 figs.

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NUCLEAR POWER PLANTS; REACTOR OPERATION; LENINGRAD-1 REACTOR; ENERGY LEVELS; REACTOR FUELING; REACTOR CHANNELS

Operational calculations of the core parameters during the RBMK-1000 process channels (PC) overloading have been presented in the paper. Authors describe the operation of the overload algorithm. It is noted that during the verification of the algorithm operation, in the process of PC overload no detectors were sorted out

В работе представлены оперативные расчеты параметров активной зоны в процессе перегрузки технологических каналов (ТК) реактора РБМК-1000 на энергетическом уровне мощности. Описана работа алгоритма перегрузки. Отмечено, что в ходе проверки работы алгоритма не было выявлено отбраковок детекторов в процессе проведения перегрузки ТК

Experience in the use of wide-range equipment for monitoring power and physical measurements at BN-800 reactor

S22

Fedorov, V.A.; Kudryavtsev, A.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. #Left-Pointing Double Angle Quotation Mark#MIFI#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Alferov, V.P.; Zhitchenko, M.L. (NPTs #Left-Pointing Double Angle Quotation Mark#EhLEGIYa#Right-Pointing Double Angle Quotation Mark# - Filial AO #Left-Pointing Double Angle Quotation Mark#Krasnaya Zvezda#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Gorshenin, S.V. (AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Опыт применениа широкдиапазонной аппаратуры для контроля мoshchnosti i fizicheskikh izmerenij na BN-800

p. 174-178

(RU)

2 refs., 3 figs., 2 tabs.

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2016

800 p.

NUCLEAR POWER; REACTOR OPERATION; BN-800 REACTOR; REACTOR SAFETY; REACTOR MONITORING SYSTEMS; NEUTRON FLUX

The paper presents the equipment of wide-range channel for neutron flux monitoring, installed at unit 4 of the Beloyarsk NPP, as an additional monitoring tool during pre-commissioning operations. The experience of using this apparatus for monitoring power and physical measurements at the BN-800 reactor is described

В работе представлена аппаратура широкодиапазонного канала контроля нейтронного потока, установленная на блоке 4 Белоярской АЭС в качестве дополнительного средства мониторинга при

проведении пуско-наладочных работ, она также использовалась на этапе пуска и освоения мощности. Описан опыт применения этой аппаратуры для контроля мощности и физических измерений на реакторе БН-800

Improved calculations of RBMK cluster-type cells by surface pseudo-source method S22;S97

Sultanov, N.V. (NITs #Left-Pointing Double Angle Quotation Mark#Kurchatovskij Inst.#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Utochnennye raschety klasternykh yacheek RBMK metodom poverkhnostnykh psevdistochnikov p. 179-184

(RU)

15 refs., 2 figs., 4 tabs.

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NUCLEAR POWER PLANTS; LWGR TYPE REACTORS; REACTOR CELLS; FUEL ELEMENT CLUSTERS; CALCULATION METHODS; MATHEMATICS

The paper presents a surface pseudo-source method (SPSM), extended over cluster geometry and multigroup calculations, and entered, as options, different programs. It was verified in comparison with other methods, and showed accuracy for operational calculations. The advantages of SPSM over other methods are also shown in the paper

В работе представлен метод поверхностных псевдоисточников (МППИ), распространенный на кластерную геометрию и на многогрупповые расчеты. Метод вошел в виде опций в разные программы, был верифицирован в сравнении с другими методами и показал достаточную для практических расчетов точность при оперативных расчетах на компьютерах. Преимущества МППИ перед другими транспортными методами также показаны в работе

Technology of repairing defective heat-exchanger tubes of PGV steam generator by remote technique

S22

Volkov, L.P.; Leonov, A.N.; Panteeva, G.V. (OOO NPP #Left-Pointing Double Angle Quotation Mark#Al'fa-Diagnostika#Right-Pointing Double Angle Quotation Mark#, Obninsk (RU)); Povarov, V.P.

(Novovoronezhskaya AEhS, Novovoronezh (RU)); Malakhov, I.V.; Novokshchenov, A.M. (Rostovskaya AEhS, Volgodonsk (RU)); Krupskij, A.G.; Nelyubov, S.V. (AO #Left-Pointing Double Angle Quotation

Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Sotskov, V.V.; Kharchenko, S.A. (AO OKB #Left-Pointing Double Angle Quotation Mark#Gidropress#Right-Pointing Double Angle Quotation Mark#, Podol'sk (RU))

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Tekhnologiya remonta defektnykh teploobmennykh trubok parogeneratora PGV distantsionnym sposobom p. 185-190

(RU)

1 ref., 7 figs.

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatoma), Moscow (RU)
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NUCLEAR POWER PLANTS; REACTOR MAINTENANCE; REPAIR; STEAM GENERATORS; HEAT EXCHANGERS; REMOTE HANDLING

Technology of repairing defective heat exchanger tubes of PGV steam generators by remote technique is described in the paper. The newly developed remote-control manipulators allow carrying out repair of steam generators by a single team using a single control panel, and besides, such manipulators can radically reduce the exposure of maintenance personnel

В статье описана технология ремонта дефектных теплообменных трубок парогенераторов ПГВ дистанционным способом. Описаны недавно разработанные манипуляторы дистанционного управления, позволяющие выполнять ремонт парогенераторов единой бригадой с помощью единого пульта управления, кроме того, такие манипуляторы позволяют резко сократить облучение ремонтного персонала

PSR-enterprise Smolensk NPP. Tasks, problems, achievements

S22

Aputin, V.M.; Prokopets, V.L. (Smolenskaya AEhS, Desnogorsk (RU))

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PSR-predpriyatie Smolenskaya AEhS. Zadachi, problemy, itogi

p. 190-193
(RU)

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NUCLEAR POWER; NUCLEAR POWER PLANTS; LWGR TYPE REACTORS; PERSONNEL MANAGEMENT; RESOURCE MANAGEMENT; PROPERTY MANAGEMENT

The Production System of Rosatom (PSR) is an industrial culture and a system of continuous process of improvement to ensure a competitive advantage at the world level. Smolensk NPP has become one of the first PSR-enterprises. The authors present the station's activity, and describe the innovations and projects implemented at the NPP

Производственная система Росатома (ПСП) - это культура бережливого производства и система непрерывного совершенствования процессов для обеспечения конкурентного преимущества на мировом уровне. Смоленская АЭС стала одним из первых таких ПСП-предприятий. Авторы представляют работу станции и описывают реализуемые на АЭС новшества и проекты

Optimization of process operations of replacement the condenser PTU-14 at power unit 5 of Novovoronezh NPP

S22
Zaloznyj, A.V. (Novovoronezhskaya AEhS, Novovoronezh (RU))
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Optimizatsiya tekhnologicheskikh operatsij po zamene kondensatora PTU-14 ehnergobloka #Numero Sign#5
Novovoronezhskoj AEhS
p. 194-197
(RU)
11 figs., 5 tabs.

Rosehnergoatom (Ehлектроehnergeticheskij Divizion Rosatoma), Moscow (RU)
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NUCLEAR POWER; WWER TYPE REACTORS; NOVovorONEZH-5 REACTOR; REACTOR MAINTENANCE; STEAM CONDENSERS; STEAM TURBINES

Optimization of process operations of replacement the condenser PTU-14 at power unit 5 of Novovoronezh NPP is presented in the paper. Problems encountered in the operation of turbine condensers, and corrective measures are also discussed in the paper

В статье описана оптимизация технологических операций по замене конденсатора ПТУ-14 пятого энергоблока Нововоронежской АЭС. Описаны проблемы, возникшие при эксплуатации конденсаторов турбин, и корректирующие мероприятия

Preparation of the RBMK-1000 reactor facility for restoration of performance characteristics at the Kursk NPP power units with subsequent restoration of the regular scheme

S22

Zhilin, I.S. (#Left-Pointing Double Angle Quotation Mark#Kurskatomehnergoremont#Right-Pointing Double Angle Quotation Mark# - Filial AO #Left-Pointing Double Angle Quotation Mark#Atomehnergoremont#Right-Pointing Double Angle Quotation Mark#, Kurchatov (RU))

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Organizatsiya podgotovki reaktornoj ustanovki RBMK-1000 k vosstanovleniyu resursnykh kharakteristik ehnergoblokov Kurskoj AEhS s posleduyushchim vosstanovleniem shtatnoj skhemy

p. 197-201

(RU)

17 figs., 1 tab.

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NUCLEAR POWER PLANTS; LWGR TYPE REACTORS; REACTOR OPERATION; REACTOR MAINTENANCE; REACTOR SAFETY; PERSONNEL MANAGEMENT

Activities within the framework of preparation of the RBMK-1000 reactor facility for restoration of resource characteristics at the Kursk NPP power units with subsequent restoration of the regular scheme are described. Authors present equipment used in these works

Перечислены мероприятия в рамках организации подготовки реакторной установки РБМК-1000 к восстановлению ресурсных характеристик энергоблоков Курской АЭС с последующим восстановлением штатной схемы. Описано оборудование, применяемое в этих работах

Maintenance and repair of NPP elements according to technical condition. A concept S22

Gurinovich, V.D.; Saraev, R.V.; Yanchenko, Yu.A. (AO #Left-Pointing Double Angle Quotation Mark#VNIAEhS#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Obsluzhivanie i remont ehlementov atomnykh stantsij po tekhnicheskomu sostoyaniyu. Kontseptsiya p. 202-207

(RU)

6 refs., 4 figs., 1 tab.

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WWER TYPE REACTORS; LENINGRAD-1 REACTOR; BELOYARSK-3 REACTOR; REACTOR OPERATION; REACTOR MAINTENANCE; REPAIR; REACTOR SAFETY

The report presents the concept of maintenance and repair of NPP elements according to technical condition. The implementation of the concept will allow, through meeting modern requirements, to optimize the business processes of maintenance and repair of NPP elements based on the safety - reliability - cost-effectiveness criteria

В докладе представлена концепция обслуживания и ремонта элементов атомных станций по техническому состоянию. Реализация концепции позволит за счет удовлетворения современных требований оптимизировать бизнес-процессы обслуживания и ремонта элементов АЭС на основе критерия безопасность - надежность - экономическая эффективность

State and prospects of working conditions for austenite pipelines DU300 at NPP with RBMK-1000 reactor

S22

Babkin, L.B.; Osipova, T.A.; Tarasov, A.V. (AO #Left-Pointing Double Angle Quotation Mark#VNIAEhS#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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O sostoyanii i perspektivakh uslovij ehkspluatatsii austenitnykh truboprovodov DU300 na AEhS s RU RBMK-1000

p. 207-211

(RU)

16 refs., 6 figs.

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SMOLENSK-1 REACTOR; REACTOR OPERATION; REACTOR SAFETY; PIPELINES; CRACKS; DEFECTS

The report defines the state and prospects of working conditions for austenitic pipelines at NPP with RBMK-1000 reactors. The results of application of technologies for preventing the formation and development of cracks in pipelines are described. These results indicate the effectiveness of the application of measures to counteract the formation and development of cracks

В докладе говорится о состоянии и перспективах условий эксплуатации аустенитных трубопроводов на АЭС с реакторами РБМК-1000. Описаны результаты применения технологий по предотвращению образования и развития трещин в трубопроводах. Эти результаты свидетельствуют об эффективности применения мероприятий по противодействию образования и развития трещин

An assessment of the radiation resistance and strength characteristics of BELZONA materials for their possible use in repair of NPP equipment of the 2-nd safety class: tanks, cooling ponds, oil coolers and other equipment

S22

Makeeva, E.A.; Vul'fovich, I.A.; Bagirov, I.Eh. (ZAO #Left-Pointing Double Angle Quotation Mark#Parma-

Servis#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Semerikov, V.B.; Golosov, O.A.;

Bakhtina, E.A. (AO #Left-Pointing Double Angle Quotation Mark#Inst. Reaktornykh Materialov#Right-

Pointing Double Angle Quotation Mark#, Zarechnyj (RU))

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Otsenka radiatsionnoj stojkosti i prochnostnykh kharakteristik materialov BELZONA dlya vozmozhnosti ikh primeneniya v remontakh oborudovaniya 2-go klassa bezopasnosti: bakov, bassejnov vyderzhki, maslookhladitelej i drugogo oborudovaniya atomnykh stantsij

p. 212-216

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6 refs., 3 figs., 5 tabs.

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NUCLEAR POWER PLANTS; REACTOR SAFETY; REACTOR MAINTENANCE; REPAIR;
 CORROSION RESISTANCE; RADIATION PROTECTION; COMPOSITE MATERIALS

The paper gives an assessment of the radiation resistance and strength characteristics of BELZONA polymer composite materials (PCM) for their possible use in the repair of equipment of NPPs of the 2-nd safety class: tanks, cooling ponds, oil coolers and other equipment. The data obtained during the tests testify to the high values of the radiation resistance of PCM BELZONA

В работе дана оценка радиационной стойкости и прочностных характеристик полимерных композиционных материалов (ПКМ) BELZONA для возможности их применения в ремонте оборудования АЭС 2-го класса безопасности: баков, бассейнов выдержки, маслоохладителей и другого оборудования. Полученные в ходе испытаний данные свидетельствуют о высоких значениях показателей радиационной стойкости ПКМ BELZONA

Development of coating materials for corrosion protection of NPP heat-exchangers

S22

*Koshkarov, A.A.; Blagoj, V.E.; Myandin, I.I. (OOO #Left-Pointing Double Angle Quotation
 Mark#BAJT#Right-Pointing Double Angle Quotation Mark#, Sevastopol' (RU))*

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Razrabotka lakokrasochnykh materialov dlya protivokorroziionnoj zashchity teploobmennogo oborudovaniya
 AEhS

p. 217-220

(RU)

3 refs., 2 tabs.

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REACTOR SAFETY; REACTOR MAINTENANCE; REPAIR; SURFACE COATING; CORROSION PROTECTION; WATERPROOFING

The most important physical and mechanical properties of coating materials are adhesion, hardness, elasticity, tensile strength and bending strength, impact strength and wear resistance. The article analyzes the properties of paint and varnish materials in order to determine the most important ones for the protection of NPP heat exchange equipment. The selected properties were analyzed and arranged in priority order. Also, the properties' parameters were determined according to the current standards and norms

Важнейшими физико-механическими свойствами лакокрасочного покрытия являются адгезия, твердость, эластичность, прочность при растяжении, ударная прочность, износостойкость. В статье дан анализ свойств лакокрасочных материалов с целью определения существенных для защиты теплообменного оборудования АЭС. Выделенные свойства были проанализированы и расположены в порядке приоритета, определены параметры свойств по действующим нормативам и стандартам

Endoscopic the wheelspace of NPP turbines

S22
Lukin, V.A.; Novikov, A.V. (AO #Left-Pointing Double Angle Quotation Mark#VNIIAEhS#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Ehndoskopirowanie protochnoj chasti turbin AEhS

p. 221-227

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26 figs.

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NUCLEAR POWER; WWER TYPE REACTORS; TURBINES; REACTOR SAFETY; REACTOR MAINTENANCE; CONTROL EQUIPMENT; CONTROL SYSTEMS

The authors prove that a full-scale introduction of complexes with an automated endoscopy process will help to master a new technology for monitoring the technical state of turbine blades, and begin transition to the implementation of the repair system for the NPP turbines according to the actual technical state

Авторы статьи доказывают, что полноценное внедрение комплексов с автоматизированным процессом эндоскопирования позволит освоить новую технологию контроля технического состояния лопаточного аппарата последних ступеней и начать переход на реализацию системы ремонта турбин АЭС по фактическому техническому состоянию

Radiation resistance of BELZONA type polymeric composite materials for corrosion protection of NPP equipment

S22

Kononenko, A.I.; Tsikanin, A.G.; Bubnov, I.V. (FGUP #Left-Pointing Double Angle Quotation Mark#NIIP#Right-Pointing Double Angle Quotation Mark#, Lytkarino (RU))

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Radiatsionnaya stojkost' polimernykh kompozitsionnykh materialov tipa BELZONA dlya antikorrozijnoj zashchity oborudovaniya AEhS

p. 228-229

(RU)

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CORROSION RESISTANCE; RADIATION PROTECTION; COMPOSITE MATERIALS

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В работе дана оценка радиационной стойкости и прочностных характеристик полимерных композиционных материалов (ПКМ) BELZONA для возможности их применения в ремонте оборудования АЭС. Полученные в ходе испытаний данные свидетельствуют о высоких значениях показателей радиационной стойкости ПКМ BELZONA

Upgrading separator superheater 11-14 at Smolensk NPP

S22

Aputin, V.M.; Prokopets, V.L. (Smolenskaya AEhS, Desnogorsk (RU))

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Modernizatsiya SPP-11-14 Smolenskoj AEhS

p. 230-233

(RU)

8 figs.

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NUCLEAR POWER; REACTOR SAFETY; LWGR TYPE REACTORS; REACTOR MAINTENANCE;
SUPERHEATERS; STEAM GENERATORS

The authors consider the most important issues of equipment modernization at Smolensk NPP, in particular the separator-superheaters upgrading. The importance of the role played by separator-superheaters in the process of power generation at NPPs has been described

В статье авторы рассматривают важнейшие вопросы модернизации оборудования на Смоленской АЭС, в частности сепараторов-пароперегревателей. Доказывается важность роли, которую играют сепараторы-пароперегреватели в процессе выработки электроэнергии на АЭС

Extension of service life of NPPs with WWER-1000 reactors

S21;S22

Shchekotov, A.V. (Balakovskaya AEhS, Balakovo (RU))

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Prodlenie sroka ehkspluatatsii AEhS s VVEhR-1000

p. 234-235

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NUCLEAR POWER PLANTS; REACTOR OPERATION; REACTOR SAFETY; BALAKOVO-1 REACTOR; WWER TYPE REACTORS; SERVICE LIFE; LIFETIME EXTENSION

The paper presents plans and lists the activities to extend the service life of nuclear power plants with WWER-type reactors, in particular at Balakovo NPP

В работе представлены планы и перечислены мероприятия по увеличению срока эксплуатации АЭС с реакторами ВВЭР, в частности Балаковской АЭС

Organization of works to improve safety and extend the service life of power units at Kursk NPP with RBMK-1000 reactors

S22
Chuvaev, S.V. (Kurskaya AEhS, Kurchatov (RU))
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Organizatsiya rabot po povysheniyu bezopasnosti i prodleniyu sroka ehkspluatatsii ehnergoblokov s reaktorami RBMK-1000 Kurskoj AEhS
 p. 235-240

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NUCLEAR POWER; REACTOR OPERATION; REACTOR SAFETY; LWGR TYPE REACTORS; SERVICE LIFE; LIFETIME EXTENSION

The article presents works to improve the safety and modernization of equipment within the projects to extend service life of power units of the Kursk NPP. Economic feasibility of extending life service of power units has been confirmed

В статье представлено проведение работ по повышению безопасности и модернизации оборудования в рамках проектов по продлению срока эксплуатации энергоблоков Курской АЭС. Подтверждена экономическая целесообразность продления срока эксплуатации энергоблоков

Experience in carrying out works to restore the components of reactor facilities at Leningrad NPP

S22

Lavrenov, V.S. (Leningradskaya AEhS, Sosnovyj Bor (RU))

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Opyt vypolneniya rabot po vosstanovleniyu ehlementov reaktornykh ustanovok ehnergoblokov Leningradskoj AEhS

p. 241-242

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NUCLEAR POWER PLANTS; LWGR TYPE REACTORS; REACTOR OPERATION; REACTOR SAFETY; REPAIR; REACTOR COMPONENTS

The article presents a program of works to remove uncertainties in predicting the degradation processes of components of RBMK-1000 reactors at Leningrad NPP at the final stage of operation and improving the technology of restoring performance characteristics

В статье представлена программа работ по снятию неопределенностей в прогнозировании процессов деградации элементов активных зон реакторных установок РБМК-1000 на Ленинградской АЭС на завершающем этапе эксплуатации и совершенствованию технологии восстановления ресурсных характеристик

Restoration of performance characteristics of graphite stack of NPP power units with RBMK reactors

S21;S22

Slobodchikov, A.V.; Biryukov, A.N.; Shlenov, A.V.; Mikhal'chenko, A.P. (AO #Left-Pointing Double Angle Quotation Mark#NIKIEhT#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Vosstanovlenie resursnykh kharakteristik grafitovoj kladki ehnergoblokov AEhS s RBMK

p. 243-247

(RU)

12 figs., 1 tab.

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatoma), Moscow (RU)

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Pointing Double Angle Quotation Mark#. Plenarnye i sektionnye doklady

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2016

800 p.

NUCLEAR FACILITIES; LWGR TYPE REACTORS; REACTOR SAFETY; FUEL ASSEMBLIES;
STACKS; GRAPHITE

The article presents a safety analysis of a power unit at all operating modes, including design and beyond-design accidents. New criteria for safe operation of fuel channels, control and protection rod channels and graphite stack of RBMK reactors have been determined and justified

В статье представлен анализ безопасности энергоблока на всех режимах эксплуатации, включая проектные и запроектные аварии, с учетом кинетики развития процессов формоизменения.

Определены и обоснованы новые критерии безопасной эксплуатации топливных каналов, каналов систем управления и защиты и графитовой кладки реакторов РБМК

The role of concepts of structural integrity of pipelines and NPP equipment in the safety substantiation and operating costs reduction

S22;S29

Adadurov, E.G.; Arzhaev, A.A.; Arzhaev, A.I.; Konstantinov, M.V.; Podlatov, M.A. (AO #Left-Pointing Double Angle Quotation Mark#Atomtekhehnergo#Right-Pointing Double Angle Quotation Mark#, Filial #Left-Pointing Double Angle Quotation Mark#Smolenskatomtekhehnergo#Right-Pointing Double Angle Quotation Mark#, Desnogorsk (RU)); Makhanev, V.O. (ANO MTsYaB, Moscow (RU))

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O roli kontseptsij konstruktsionnoj tselostnosti truboprovodov i oborudovaniya AS pri obosnovanii bezopasnosti i snizhenii ehkspluatatsionnykh izderzhok

p. 248-253

(RU)

45 refs., 3 figs., 1 tab.

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NUCLEAR POWER PLANTS; REACTOR OPERATION; PIPELINES; REACTOR SAFETY;
 ECONOMIC ANALYSIS; OPERATING COST

The paper shows that the optimization of maintenance and repair system (MRS) is the key direction of optimization of operating costs. At the same time, this report notes that the components of structural integrity and measures for managing the resources can be used in the optimization scheme for MRS

В работе было показано, что ключевым направлением оптимизации эксплуатационных затрат является оптимизация системы технического обслуживания и ремонта (ТОиР). При этом отмеченные в настоящем докладе составные элементы обоснования конструкционной целостности и мероприятия по управлению ресурсом элементов могут быть использованы в схеме оптимизации ТОиР

The estimation of the erosion and corrosion wear rate and residual operation life of NPP pipelines according to the operational control data

S22;S97

Gulina, O.M.; Sal'nikov, N.L. (IATEh NIYaU MIFI, Obninsk (RU)); Baranenko, V.I. (VNIAEhS, Moscow (RU))

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K raschetu skorosti ehrozionno-korrozionnogo iznosa i ostatochnogo resursa truboprovodov AEhS po dannym ehkspluatatsionnogo kontrolya

p. 253-256

(RU)

2 figs., 3 tabs.

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800 p.

REACTOR SAFETY; WWER TYPE REACTORS; LWGR TYPE REACTORS; CORROSION RESISTANCE; WEAR RESISTANCE; MATHEMATICS; MATHEMATICAL MODELS

The paper gives an estimation of the erosion and corrosion wear rate (ECR) and residual operation life of NPP pipelines according to the operational control data on power units with WWER-1000 and RBMK-1000 reactors using the developed model based on correcting coefficients. The possibility and necessity of using software for predicting the ECR rate have been shown

В работе даны оценки скорости эрозионно-коррозионного износа (ЭКИ) и остаточного ресурса на данных контроля на энергоблоках с реакторами ВВЭР-1000 и РБМК-1000 с использованием разработанной модели на основе корректирующих коэффициентов. Показана возможность и необходимость использования программных средств для прогнозирования скорости ЭКИ

Analysis of condition of steam generators' heat-exchanges at NPPs with WWER reactors based on eddy-current testing data

S22

Teslenko, M.V. (AO OKB #Left-Pointing Double Angle Quotation Mark#GIDROPRESS#Right-Pointing Double Angle Quotation Mark#, Podol'sk (RU))

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Analiz sostoyaniya teploobmennyykh trub parogeneratorov AEhS s VVEhR na osnove dannykh vikhretokovykh kontrolej

p. 257-261

(RU)

16 figs.

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WWER TYPE REACTORS; STEAM GENERATORS; REACTOR SAFETY; HEAT EXCHANGERS; NONDESTRUCTIVE TESTING; EDDY CURRENT TESTING

In order to detect defects in the tube bundle of heat-exchange tubes, the authors carried out an analysis of eddy current (EC) monitoring data. An analysis of the depth of flaws, the EC signal amplitudes, the number of new flaws, and the relative parameters of the state are also given

Авторы провели анализ данных вихретокового контроля с целью обнаружения дефектов в трубном пучке теплообменных труб. Также дан анализ глубин дефектов, амплитуд вихретоковых сигналов, количества новых дефектов, а также относительных параметров состояния

Archive of technical documents regulating the safe operation of NPP units

S22;S99

Anufrieva, T.P.; Frolov, F.V. (AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Strelkov, S.A. (ZAO #Left-Pointing Double Angle Quotation Mark#KROK Inkorporejted#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Mets, A.A. (AO #Left-Pointing Double Angle Quotation Mark#KONSIST-OS#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Arkhiv tekhnicheskoy dokumentatsii, reglamentiruyushchej obespechenie bezopasnoj ehkspluatatsii ehnergoblokov AS

p. 262-265

(RU)

3 refs., 4 figs.

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NUCLEAR POWER; REACTOR OPERATION; REACTOR SAFETY; REGULATIONS; SAFETY REPORTS; RECOMMENDATIONS; SAFETY STANDARDS

The paper presents the archive of technical documentation regulating the safe operation of NPP power units. It is intended for automation of life-cycle management processes of all types of technical documentation, throughout all stages of the life cycle of NPPs. Its implementation contributes to the development and dissemination of best practices for the management of technical documentation

В работе представлен архив технической документации, регламентирующей обеспечение безопасной эксплуатации энергоблоков АЭС. Он предназначен для автоматизации процессов управления жизненным циклом всех видов технической документации, на протяжении всех этапов жизненного цикла АЭС. Его внедрение способствует выработке и распространению лучших практик по управлению технической документацией

Managing the performance characteristics of equipment and building structures of NPPs under beyond-design service lifetime based on the new philosophy of diagnosis

S21;S22

Povarov, V.P.; Urazov, O.V.; Gromov, A.F.; Slepov, M.T. (Novovoronezhskaya AEhS, Novovoronezh (RU))

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Upravlenie resursnymi kharakteristikami oborudovaniya i stroitel'nykh konstruksij AEhS pri sverkhproektnykh srokakh ehkspluatatsii na osnove novoj filosofii diagnostiki

p. 265-269

(RU)

8 refs., 3 figs.

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NUCLEAR POWER PLANTS; WWER TYPE REACTORS; NOVOVORONEZH-5 REACTOR; REACTOR OPERATION; REACTOR SAFETY; LIFETIME EXTENSION; DIAGNOSTIC TECHNIQUES

The paper presents a new concept for the safety of equipment and building structures of NPPs, based on the continuous monitoring of critical areas that have defects or excessive damage. The estimation of the current state of the components of objects of control is given. A new approach to investigate the causes of increased damage of NPP critical equipment is proposed

В работе представлена новая концепция безопасности оборудования и строительных конструкций АЭС, основанная на непрерывном мониторинге критических зон, имеющих дефекты или повышенную сверхнормативную повреждаемость. Дана оценка текущего состояния элементов объектов контроля, показаны компенсирующие меры в случае развития дефектов. Предложен новый подход к исследованию причин повышенной повреждаемости ответственного оборудования АЭС

Hydrogen generation in the interaction of structural materials based on aluminum and water during simulation of nuclear power factors

S22;S36

Milinchuk, V.K.; Klinshpont, Eh.R.; Belozarov, V.I.; Khavroshina, I.S.; Sadikov, Eh.I. (Obninskij Inst. Atomnoj Ehnergetiki NIYaU MIFI, Obninsk (RU)); Ivanova, S.V. (Inst. Promyshlennykh Yadernykh Tekhnologij NIYaU MIFI, Moscow (RU))

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Generatsiya vodoroda pri vzaimodejstvii konstruksionnykh materialov na osnove alyuminiya s vodoj pri imitatsii faktorov YaEhU

p. 270-271

(RU)

3 refs., 2 figs.

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NUCLEAR POWER; REACTOR OPERATION; REACTOR SAFETY; BUILDING MATERIALS;
 ALUMINIUM; INTERSTITIAL HYDROGEN GENERATION

Authors present researches of hydrogen generation kinetics by hydroheterogeneous compositions containing aluminum preliminarily irradiated at room temperature in air and in aqueous media simulating the coolant of WWER reactors. Aluminum oxide layers under the impact of factors of nuclear power (radiation, high temperature, radiolysis products of the aquatic environment, oxygen) undergo transformations that lead to disruption of their uniformity

В работе проведены исследования кинетики генерации водорода гидрогетерогенными композициями, содержащими алюминий, предварительно облученный при комнатной температуре на воздухе и в водных средах, моделирующих теплоноситель реакторов ВВЭР. Оксидные слои алюминия при воздействии факторов ЯЭУ (радиации, высокой температуры, продуктов радиолиза водной среды, кислорода) претерпевают превращения, приводящие к нарушению их сплошности

The introduction of a system of automated monitoring the remaining lifetime in conjunction with a hydraulic shock absorber monitoring system at the stage of power unit extending lifetime

S22

Bogachev, A.V.; Berkovich, V.Ya.; Merkun, A.V.; Muravin, D.B.; Nagornyy, A.O.; Semishkin, V.P.; Shagov, E.V. (AO OKB #Left-Pointing Double Angle Quotation Mark#GIDROPRESS#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Zhukov, A.V. (OOO #Left-Pointing Double Angle Quotation Mark#SNIIP-ASKUR#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Barkov, V.N. (FGUP EhZAN, Chernogolovka (RU))

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Vnedrenie sistemy avtomatizirovannogo kontrolya ostatochnogo resursa sovместno s sistemoy kontrolya gidroamortizatorov na ehtape prodleniya sroka sluzhby ehnergobloka

p. 271-276

(RU)

8 refs., 6 figs.

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NUCLEAR POWER PLANTS; REACTOR OPERATION; REACTOR SAFETY; LIFETIME EXTENSION; REACTOR MONITORING SYSTEMS; SHOCK ABSORBERS; COMPUTERIZED CONTROL SYSTEMS

The paper describes the introduction of a system for automated monitoring the residual resource at the stage of extending lifetime of NPP power unit in conjunction with a hydraulic shock absorber monitoring system equipped with a set of interrelated software. The system helps to monitor the accumulated fatigue damage throughout the entire reactor facility in automated mode

В работе описано внедрение системы автоматизированного контроля остаточного ресурса на этапе продления срока службы энергоблока АЭС совместно с системой контроля гидроамортизаторов, оснащенной комплексом взаимосвязанного программного обеспечения и позволяющей контролировать накопленное усталостное повреждение по всему оборудованию реакторной установки в автоматизированном режиме

Evaluation of the feasibility of the project to create control and management systems for nuclear power plants using fuzzy cognitive modeling

S22;S97

Korobkin, V.V. (NII MVS YuFU, Taganrog (RU)); Kolodenkova, A.E. (UGATU, Ufa (RU))

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Otsenka realizuemosti proekta po sozdaniyu sistem kontrolya i upravleniya dlya atomnykh stantsij s primeneniem nechetkogo kognitivnogo modelirovaniya

p. 277-281

(RU)

6 refs., 5 figs., 2 tabs.

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NUCLEAR FACILITIES; REACTOR OPERATION; PROGRAM MANAGEMENT; FORECASTING; COMPUTERIZED SIMULATION; REACTOR MONITORING SYSTEMS; COMPUTERIZED

CONTROL SYSTEMS

To assess the feasibility of a project of information and management systems (IMS) for NPP, authors propose a fuzzy cognitive modeling to predict the occurrence of possible problems associated with the occurrence of any deviations, and to simulate the probability and consequences of their development in order to take a set of measures for economically and technically successful creation of IMS

Для оценки реализуемости проекта по созданию информационно-управляющих систем (ИУС) для АЭС в работе предлагается нечеткое когнитивное моделирование, позволяющее прогнозировать возникновение возможных проблем, связанных с появлением каких-либо отклонений, а также моделировать вероятность и последствия их развития, чтобы предпринять комплекс мер для экономически и технически успешного создания ИУС

Roxtec modular sealing systems for cable and pipe inlets

S22

Kukhareno, D.S. (OOO #Left-Pointing Double Angle Quotation Mark#Rokstehk RU#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Modul'nye sistemy germetizatsii kabel'nykh i trubnykh vvodov Roxtec

p. 281-285

(RU)

3 refs., 4 figs.

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NUCLEAR POWER; REACTOR OPERATION; REACTOR SAFETY; ELECTRIC CABLES; PIPE FITTINGS; COMPUTERIZED CONTROL SYSTEMS

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Современные условия эксплуатации АЭС диктуют выполнение модульными проходками одновременно сразу нескольких требований, таких как, например, герметизация, огнезащита и взрывозащита оборудования. Продукция Roxtec позволяет совместить решение всех этих вопросов в единой проходке

Regulatory base of technical documents for managing cable performance characteristics at NPPs

S22

Kononenko, A.I. (FGUP #Left-Pointing Double Angle Quotation Mark#NIIP#Right-Pointing Double Angle Quotation Mark#, Lytkarino (RU))

10th International scientific-technical conference #Left-Pointing Double Angle Quotation Mark#Safety, efficiency and economics of nuclear energy#Right-Pointing Double Angle Quotation Mark#

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Normativnaya baza tekhnicheskikh dokumentov dlya upravleniya resursnymi kharakteristikami kabelej na AEhS

p. 285-290

(RU)

11 refs., 9 figs., 1 tab.

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatoma), Moscow (RU)

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AO Kontsern Rosehnergoatom

2016

800 p.

NUCLEAR POWER PLANTS; REACTOR OPERATION; REACTOR SAFETY; REACTOR COMPONENTS; ELECTRIC CABLES; LIFETIME EXTENSION; RESOURCE MANAGEMENT

Within the framework of effort to extend the lifetime of NPP units, a series of technical documents has been developed to assess the actual state and forecast the service life of various types of power and control cables, taking into account external factors of design accidents. The work describes the organization of work on the technical diagnosis of these cables

В рамках работ по продлению срока эксплуатации блоков АЭС была разработана серия технических документов для оценки фактического состояния и прогнозирования срока службы различных типов силовых и контрольных кабелей, в том числе, с учетом внешних воздействующих факторов проектных аварий. В работе описана организация работ по техническому диагностированию этих кабелей

Introduction and operation of DC systems at Russian nuclear facilities

S22

Arkhipov, A.A.; Galkin, I.A.; Lopatin, A.A. (OOO NPP #Left-Pointing Double Angle Quotation Mark#EhKRA#Right-Pointing Double Angle Quotation Mark#, Cheboksary (RU))

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 Opyt vnedreniya i ehkspluatatsii sistem operativnogo postoyannogo toka na ob"ektakh atomnoj ehnergetiki Rossii
 p. 291-292
 (RU)

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatoma), Moscow (RU)
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 2016
 800 p.

NUCLEAR FACILITIES; REACTOR OPERATION; REACTOR SAFETY; DC SYSTEMS; POWER SYSTEMS; ELECTRICAL INSULATION

The authors describe the experience of the implementation and operation of the ECRA-SCI insulation monitoring system in NPP direct current panels that has shown that the system works reliably and allows finding errors in connections that have not been found when applying a traditional insulation monitoring scheme and manual searching for damaged isolation of the direct current network

Авторы описывают опыт внедрения и эксплуатации системы контроля изоляции ЭКРА-СКИ в щитах постоянного тока АЭС, который показал, что указанная система работает надежно и позволяет найти ошибки в присоединениях, которые не были найдены при применении традиционной схемы контроля изоляции и ручном поиске поврежденной изоляции сети оперативного постоянного тока

Special features of the application of modern generator circuit-breaker for protecting NPP large power units

S22
Krasnov, S.V. (OOO #Left-Pointing Double Angle Quotation Mark#ABB#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Palatstso, M. (ABB Switzerland, Tsyurikh (CH))

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Osobennosti primeneniya sovremennykh generatorykh vyklyuchatelej dlya zashchity krupnykh ehnergoblokov atomnykh ehlektrostantsij

p. 292-295
 (RU)

2 refs., 8 figs., 2 tabs.

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NUCLEAR POWER; REACTOR OPERATION; ELECTRICAL EQUIPMENT; CIRCUIT BREAKERS;
 ELECTRICAL FAULTS; GAS-INSULATED CABLES

The paper presents statistics of the operation of generator circuit-breakers in different countries, from which it can be seen that gas-insulated devices have a significantly higher level of reliability. The use of such modern gas-insulated generator circuit-breakers can ensure the highest level of reliability of NPPs

В работе приведена статистика работы генераторных выключателей из разных стран мира, из которой видно, что элегазовые аппараты имеют существенно более высокий уровень надежности, чем воздушные. Применение именно таких, современных элегазовых генераторных выключателей поможет обеспечить самый высокий уровень надежности АЭС

Measurements of reactivity in the operation of NPP reactors

S22;S97

*Lebedev, G.V.; Zhitarev, V.E.; Sergevnin, A.Yu. (NITs KI #Left-Pointing Double Angle Quotation
 Mark#Kurchatovskij Inst.#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))*

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Izmereniya reaktivnosti pri ehkspluatatsii reaktorov AEhS

p. 295-300

(RU)

12 refs., 5 figs., 3 tabs.

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NUCLEAR POWER; REACTOR OPERATION; REACTOR SAFETY; REACTOR MONITORING
 SYSTEMS; REACTIVITY METERS; NEUTRON DETECTORS; CALCULATION METHODS;
 FEYNMAN METHOD

Authors describe reactivity meter RCT-1, which is a computerized system for measuring the number of neutrons in time in the volume of a reactor, and calculating the reactivity values from the results of these measurements. The components of RCT-1 are as follows: a neutron registration system, programmable processing modules, a computer and related software. To measure the subcriticality of WWER-type reactors, Feynman method is presented

Описан реактиметр РКИ-1, являющийся автоматизированной системой для измерений числа нейтронов во времени в объеме реактора и вычислений значений реактивности по результатам этих измерений. Составными частями РКИ-1 являются: система регистрации нейтронов, программируемые модули обработки, компьютер и соответствующее программное обеспечение. Для измерения подкритичности реакторов типа ВВЭР описан Feynman method

Modernization of the database #Left-Pointing Double Angle Quotation Mark#Instruments and equipment for chemical control at NPP#Right-Pointing Double Angle Quotation Mark#S22;S97

Fedoseev, M.V. (AO #Left-Pointing Double Angle Quotation Mark#VNIAEhS#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Modernizatsiya bazy dannykh #Left-Pointing Double Angle Quotation Mark#Pribory i oborudovanie khimicheskogo kontrolya na AEhS#Right-Pointing Double Angle Quotation Mark#

p. 301-302

(RU)

3 refs., 2 figs.

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800 p.

NUCLEAR POWER PLANTS; REACTOR SAFETY; CHEMICAL PROPERTIES; MEASURING INSTRUMENTS; COMPUTERIZED CONTROL SYSTEMS; DATA BASE MANAGEMENT; COMPUTER CODES

The article considers the stages of the development of a data system containing information on the technical and operational characteristics of instruments and equipment for chemical control at NPP, information on the features of their operation and technical support. The modernization of this system is proposed on the basis of the introduction of a new structure for collecting initial information based on cloud technologies

В статье рассматриваются этапы развития информационной системы, содержащей сведения о технических и эксплуатационных характеристиках приборов и оборудования химического контроля,

сведения об особенностях их эксплуатации и технического сопровождения. Предлагается модернизация этой системы на основе внедрения новой структуры сбора исходной информации и аппаратно-программной реализации на базе облачных технологий

Technical diagnosis of power cables with impregnated paper insulation at NPPs

S22

Kononenko, A.I.; Khokhryakov, A.V.; Shkil', G.N.; Belousov, S.V.; Ratnikov, D.A. (FGUP #Left-Pointing Double Angle Quotation Mark#NIIP#Right-Pointing Double Angle Quotation Mark##Right-Pointing Double Angle Quotation Mark#, Lytkarino (RU))

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Опыт технического диагностирования силовых кабелей с пропитанной бумажной изоляцией на атомных станциях

p. 303-307

(RU)

6 refs., 6 figs., 2 tabs.

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NUCLEAR POWER PLANTS; REACTOR SAFETY; DIAGNOSTIC TECHNIQUES; ELECTRIC CABLES; DIELECTRIC MATERIALS; ELECTRICAL INSULATION

Authors have determined and tested new diagnostic parameters of the recovered voltage to monitor the condition of power cables with impregnated paper insulation. Their application makes it possible to control the aging of electrical insulation by the volume charge state change and by the change in electric conductivity

В работе определены и апробированы новые диагностические параметры восстановленного напряжения для контроля состояния пропитанной бумажной изоляцией силовых кабелей. Их применение дает возможность контролировать старение электрической изоляции как по изменению объемного зарядового состояния, так и по изменению электропроводности

The application of IR spectroscopy for the identification and non-destructive diagnostics of cables with rubber cover/insulation at NPP

S22

Tsikanin, A.G. (FGUP #Left-Pointing Double Angle Quotation Mark#NIIP#Right-Pointing Double Angle Quotation Mark#, Lytkarino (RU))

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Opyt primeneniya IK spektroskopii dlya identifikatsii i nerazrushayushchej diagnostiki kabelej s rezinovoj obolochkoj/izolyatsiej na AEhS

p. 308-309

(RU)

4 refs., 1 fig.

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatoma), Moscow (RU)

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NUCLEAR POWER PLANTS; REACTOR SAFETY; DIAGNOSTIC TECHNIQUES; ELECTRIC CABLES; DIELECTRIC MATERIALS; ELECTRICAL INSULATION

The application of infrared spectroscopy for the identification and non-destructive diagnostics of cables with rubber cover or insulation at NPP is described in the paper. Infrared spectra of micro-samples of cable covers having different degree of aging are shown

В работе описан опыт применения инфракрасной спектроскопии для идентификации и неразрушающей диагностики кабелей с резиновой изоляцией или оболочкой на АЭС. Показаны инфракрасные спектры микрообразцов с оболочек кабелей, имеющих разную степень старения

Digital real-time technologies for testing and diagnostics of electrical equipment of power plants

S22;S97

Niminushchij, V.V.; Popov, M.G. (FGAOU VPO #Left-Pointing Double Angle Quotation

Mark#SPbPU#Right-Pointing Double Angle Quotation Mark#, Sankt-Peterburg (RU)); Ryabov, V.N. (OOO

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Tsifrovye tekhnologii real'nogo vremeni dlya ispytanij i diagnostiki ehlektrooborudovaniya ehlektrostantsij

p. 310-313

(RU)

8 figs., 1 tab.

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NUCLEAR POWER PLANTS; REACTOR SAFETY; ELECTRONIC EQUIPMENT; REAL TIME SYSTEMS; DIAGNOSTIC TECHNIQUES; COMPUTERIZED CONTROL SYSTEMS

The article considers the process and results of the implementation of digital diagnostic complex of software and hardware modeling. Industrial prototype of the complex has been implemented at several NPPs, in particular at the Kursk and Leningrad NPPs. Now, work is underway to expand the application of real-time technologies for solving problems in energy and training

В статье рассматривается процесс и результаты внедрения цифрового диагностического комплекса программно-аппаратного моделирования. Промышленные образцы комплекса внедрены на ряде АЭС, в частности на Курской и Ленинградской АЭС. В настоящее время проводятся работы по расширению диапазона применения технологий реального времени для решения задач в энергетике и обучении

Current state and ways to improve operational non-destructive testing of the main equipment and pipelines of NPPs with WWER reactors

S22

Karzov, G.P.; Varovin, A.Ya. (FGUP #Left-Pointing Double Angle Quotation Mark#TsNII KM #Left-Pointing Double Angle Quotation Mark#Prometej#Right-Pointing Double Angle Quotation Mark#, Sankt-Peterburg (RU))

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Sovremennoe sostoyanie i puti sovershenstvovaniya ehkspluatatsionnogo nerazrushayushchego kontrolya osnovnogo oborudovaniya i truboprovodov AEhS s VVEhR

p. 314-317

(RU)

7 refs., 4 figs.

Rosehnergoatom (Ehlektröhnergeticheskij Divizion Rosatoma), Moscow (RU)
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REACTOR OPERATION; REACTOR SAFETY; WWER TYPE REACTORS; NONDESTRUCTIVE TESTING; REACTOR VESSELS; PIPELINES

In the article, authors define the current state and ways to improve operational non-destructive testing of the main equipment and pipelines of NPPs with WWER-type reactors

В работе представлено современное состояние и пути совершенствования эксплуатационного неразрушающего контроля основного оборудования и трубопроводов атомных электростанций с реакторами ВВЭР

Steel for power reactor facility steam generator with sodium coolant

S22;S36

Karzov, G.P.; Kudryavtsev, A.S.; Skutin, V.S. (FGUP #Left-Pointing Double Angle Quotation Mark#TsNII KM #Left-Pointing Double Angle Quotation Mark#Prometej#Right-Pointing Double Angle Quotation Mark#, Sankt-Peterburg (RU)); Denisov, V.V.; Korolev, S.Yu.; Lyakisheva, M.D. (AO OKB #Left-Pointing Double Angle Quotation Mark#Gidropress#Right-Pointing Double Angle Quotation Mark#, Podol'sk (RU)); Borisov, V.V.; Kamaev, A.A.; Poplavskij, V.M. (AO #Left-Pointing Double Angle Quotation Mark#GNTs RF-FEhI#Right-Pointing Double Angle Quotation Mark#, Obninsk (RU))

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Stal' dlya parogeneratora RU bol'shoj moshchnosti s natrievym teplonositelem

p. 318-322

(RU)

10 figs., 1 tab.

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NUCLEAR FACILITIES; FAST REACTORS; SODIUM COOLED REACTORS; STEAM GENERATORS; STEELS; CORROSION PROTECTION; CORROSION FATIGUE

Issues of application of different grades of steels for a steam generator of reactor facilities of high power with sodium coolant are considered in the paper. It is noted that the developed steel 07H12NMFB has a high level of service properties necessary for the material of steam generators, and fully meets the requirements for short-term and long-term mechanical properties

В работе рассмотрены вопросы применения различных марок сталей для парогенератора реакторных установок большой мощности с натриевым теплоносителем. Отмечается, что разработанная сталь

марки 07X12НМФБ обладает высоким уровнем служебных свойств, необходимых для материала парогенератора, а также полностью удовлетворяет требованиям по кратковременным и длительным механическим свойствам

Features of severe degradation of metal of PGV-1000M steam generator heat exchanger tubes. The application of additional criteria for decision-making concerning the decommissioning of #Left-Pointing Double Angle Quotation Mark#degrading#Right-Pointing Double Angle Quotation Mark# heat-exchange tubes based on eddy current testing

S22

Zhidov, V.N.; Klyuev, D.V.; Chernikov, A.A.; Yurkin, S.A. (AO #Left-Pointing Double Angle Quotation Mark#Atomenergoremont#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Osobennosti intensivnoj degradatsii metalla teploobmennykh trub parogeneratorov PGV-1000M. Primenenie dopolnitel'nykh kriteriev dlya prinyatiya resheniya o vyvode iz ehkspluatatsii #Left-Pointing Double Angle Quotation Mark#degradiruyushchikh#Right-Pointing Double Angle Quotation Mark# teploobmennykh trub po dannym vikhretokovogo kontrolya (VTK)

p. 322-325

(RU)

5 refs., 4 tabs.

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatoma), Moscow (RU)

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800 p.

NUCLEAR POWER PLANTS; DECOMPOSITION; HEAT EXCHANGERS; EDDY CURRENT TESTING; DECOMMISSIONING; METALS

Features of severe degradation of metal of PGV-1000M steam generator heat exchanger tubes are described in the paper. The application of additional criteria for decision-making concerning the decommissioning of degrading heat-exchange tubes based on eddy current testing is discussed

В работе описаны особенности интенсивной деградации металла теплообменных труб парогенераторов ПГВ-1000М реакторов ВВЭР-1000. Предложено применение дополнительных критериев для принятия решения о выводе из эксплуатации деградирующих теплообменных труб по данным вихретокового контроля

Ways to solve problems of erosion/corrosion at NPP with RBMK-1000 reactors

S22;S36

Yurmanov, V.A.; Shut'ko, K.I.; Aref'ev, A.A.; Grigorovich, S.M.; Yurmanov, E.V. (AO #Left-Pointing Double Angle Quotation Mark#NIKIEhT#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Puti resheniya problemy ehrozii-korrozii na AEhS s RBMK-1000

p. 325-327

(RU)

13 refs., 1 tab.

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LENINGRAD-1 REACTOR; REACTOR OPERATION; REACTOR SAFETY; CORROSION; CORROSION PROTECTION; EROSION CONTROL; CARBON STEELS

In the paper, the issues of reducing the corrosion damage of equipment and pipelines made of carbon steels in the main technological circuits of nuclear power plants due to their erosion and corrosion wear are considered. The ways of solving the erosion and corrosion problem at NPPs with RBMK-1000 reactors are presented

В работе рассмотрены вопросы снижения интенсивности коррозионной повреждаемости оборудования и трубопроводов из углеродистых сталей в основных технологических контурах АЭС по причине их эрозионно-коррозионного износа. Представлены пути решения проблемы эрозии-коррозии на атомных станциях с реакторами РБМК-1000

On improving the efficiency of metal control of equipment and pipelines at NPP**S22;S36**

Baranenko, V.I.; Gusarov, A.E. (AO #Left-Pointing Double Angle Quotation Mark#VNIAEhS#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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O povyshenii ehffektivnosti kontrolya metalla oborudovaniya i truboprovodov AEhS

p. 327-332

(RU)

13 refs., 3 figs., 3 tabs.

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REACTOR OPERATION; METALS; CORROSION PROTECTION; CORROSION RESISTANCE;
 CALCULATION METHODS; EQUATIONS

Based on the analysis of the operational control data, a procedure for calculating the corrosion rate and the remaining lifetime of the components of pipeline systems has been developed. The technique is based on the use of correction factors. This technique increases the efficiency of metal control at NPPs

На основании анализа данных эксплуатационного контроля разработана методика расчета скорости коррозии и остаточного срока эксплуатации элементов трубопроводных систем. Методика основана на использовании поправочных коэффициентов. Эта методика повышает эффективность контроля металла на АЭС

The technology of manufacturing models of actual defects in welded joints Du850 with anticorrosive plating

S22

Pligin, V.V. (OOO #Left-Pointing Double Angle Quotation Mark#NTK EhKONT#Right-Pointing Double Angle Quotation Mark#, NIU MEhI, Moscow (RU))

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Tekhnologiya izgotovleniya modelej real'nykh defektov v svarnykh soedineniyakh Du850 s antikorrozionnoj naplavkoj

p. 333-335

(RU)

4 refs., 6 figs.

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WWER TYPE REACTORS; REACTOR SAFETY; PIPELINES; CORROSION PROTECTION; WELDED JOINTS; FRACTURES

The article presents the results of the work carried out to develop a technique for manufacturing models of defects located at the boundary of the base metal and anticorrosive plating in welded joints of pipelines of the primary circuit of WWER-1000 reactors. The criteria for recognizing defects are formed. A sample to check the detectability of defects of different types was obtained

В статье представлены результаты проведенной работы по отработке методики изготовления моделей дефектов, расположенных на границе основного металла и антикоррозионной наплавки в сварных соединениях трубопроводов первого контура реакторов ВВЭР-1000. Сформированы критерии распознавания протяженных по высоте дефектов и их выявление на фоне шумов от наплавки. Получен образец для проверки выявляемости дефектов различной ориентации

The project to increase the capacity of a special facility for solid radwaste processing at Leningrad NPP

S12
Terekhov, K.A. (Leningradskaya AEhS, Sosnovyj Bor (RU))
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Proekt povysheniya proizvoditel'nosti spetskorpusa po pererabotke TRO na Leningradskoj AEhS p. 336-337

(RU)

5 figs.

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LWGR TYPE REACTORS; REACTOR SAFETY; RADIOACTIVE WASTE MANAGEMENT; RADIOACTIVE WASTE FACILITIES; SOLID WASTES; PRESSING; COMBUSTION

The paper presents a project to increase the capacity of a special facility for processing solid radioactive waste (SRW) at the Leningrad NPP. Analyzing the composition of incoming waste, experts came to the conclusion that the optimal amount of SRW from the power units and SRW storage should be increased. After increasing the volume of supplied SRW, the analysis of the operation of the sorting and incineration facilities has shown that the equipment of these systems operates at 100%

В работе представлен проект повышения производительности спецкорпуса по переработке твердых радиоактивных отходов (ТРО) на Ленинградской АЭС. Проанализировав состав поступающих отходов, специалисты пришли к выводу, что оптимальное количество поступления ТРО с энергоблоков и хранилища ТРО должно быть увеличено. После увеличения объема поставляемых ТРО анализ работы установок сортирования и сжигания показал, что оборудование этих систем задействовано на 100%

Improvement of RW management and accounting systems at Novovoronezh NPP. Formation of a site for waste withdrawal from radiation monitoring

S12
Nalivajko, E.M.; Bulka, S.K. (AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark# Filial #Left-Pointing Double Angle Quotation Mark#Novovoronezhskaya AS#Right-Pointing Double Angle Quotation Mark#, Novovoronezh (RU))

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Sovershenstvovanie sistem obrashcheniya s RAO i ucheta RAO na Novovoronezhskoj AEhS. Sozdanie uchastka snyatiya otkhodov s radiatsionnogo kontrolya

p. 338-341
(RU)
5 figs.

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatoma), Moscow (RU)
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NUCLEAR FACILITIES; WWER TYPE REACTORS; REACTOR SAFETY; RADIOACTIVE WASTE MANAGEMENT; RADIATION MONITORING; REACTOR CONTROL SYSTEMS

The authors of the article show that the improvement of the Unified Automated System for Accounting and Control of Radioactive Waste (RW) allows not only to provide data to the State RW Accounting and Control System, but also efficiently organize the RW management at NPPs

Авторы статьи показывают, что совершенствование Единой автоматизированной системы учета и контроля радиоактивных отходов (РАО) позволяет не только предоставлять данные в Систему государственного учета и контроля РАО, но также и эффективно организовывать работу по обращению с РАО на АЭС

Introduction of radionuclide vector technology at Novovoronezh NPP S12;S22

Pyrkov, I.V.; Timofeeva, E.B.; Tikhonov, I.I.; Sharov, D.A. (AO #Left-Pointing Double Angle Quotation Mark#VNIAEhS#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Bulka, S.K.; Nalivajko, E.M. (Novovoronezhskaya AEhS, Novovoronezh (RU)); Korotkov, A.S. (FGUP #Left-Pointing Double Angle Quotation Mark#VNIIFTRI#Right-Pointing Double Angle Quotation Mark#, Mendeleev (RU))

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Vnedrenie tekhnologii radionuklidnogo vektora na Novovoronezhskoj AEhS

p. 341-347

(RU)

9 refs., 1 fig., 5 tabs.

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NUCLEAR POWER PLANTS; WWER TYPE REACTORS; RADIATION PROTECTION;
RADIOACTIVE WASTE MANAGEMENT; SOLID WASTES; LIQUID WASTES; RADIOISOTOPES

The use of radionuclide vector technology (RVT) helps to significantly improve the efficiency of radionuclide content monitoring in radioactive wastes (RW), and makes it possible to reduce the costs of RW certification. Based on the results of the introduction of RVT, it is necessary to assess the economic effectiveness of the application of the said technology in the process of RW certification

Применение технологии радионуклидного вектора (РВ) позволяет существенно повысить оперативность контроля содержания радионуклидов в радиоактивных отходах (РАО), а также дает возможность снизить затраты на паспортизацию РАО. По результатам внедрения технологии РВ необходимо провести оценку экономической эффективности применения указанной технологии при паспортизации РАО

Processing of salt concentrates formed at the ion-selective treatment plant (Kola NPP) S12;S22

Khubetsov, S.B.; Svittsov, A.A.; Demkin, V.I. (OOO #Left-Pointing Double Angle Quotation Mark#Nauchno-Proizvodstvennaya Firma #Left-Pointing Double Angle Quotation Mark#Gella-TEhKO#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Pererabotka solevykh kontsentratorov, obrazuyushchikhsya posle ustanovki UIISO (Kol'skaya AEhS)

p. 347-349

(RU)

3 figs., 2 tabs.

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WWER TYPE REACTORS; RADIOACTIVE WASTE MANAGEMENT; SOLID WASTES; LIQUID WASTES; ELECTRODIALYSIS; RADIOISOTOPES; RADIOACTIVE WASTE DISPOSAL

The paper describes the application of new technologies at the Kola NPP: membrane cleaning and ion-selective sorption technologies, which provide the release of radionuclides from salt still bottoms. The development of new decontamination technologies for solid and liquid radioactive wastes poses a new challenge for the nuclear industry: management of decontaminated products - construction materials, metals, chemical agents

Описано применение новых технологий на Кольской АЭС - технологии мембранной очистки и технологии ионноселективной сорбции, которые обеспечили выделение радионуклидов из солевых кубовых остатков. Развитие новых технологий дезактивации твердых радиоактивных отходов и жидких радиоактивных отходов ставит перед атомной отраслью новую проблему - обращение с дезактивированными продуктами - стройматериалами, металлами, химическими реагентами

The upgrading of LRW conditioning technologies at NPP and radiochemical facilities using the fluidized bed

S12;S22

Masanov, O.L.; Ponizov, A.V. (FBU #Left-Pointing Double Angle Quotation Mark#NTTs YaRB#Right-

Pointing Double Angle Quotation Mark#, Moscow (RU)); Kuznetsov, S.B. (AO #Left-Pointing Double Angle

Quotation Mark#VNIAEhS#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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O sovershenstvovanii tekhnologij konditsionirovaniya ZhRO AEhS i radiokhimicheskikh proizvodstv s

ispol'zovaniem #Left-Pointing Double Angle Quotation Mark#kipyashchego sloya#Right-Pointing Double

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p. 350-353

(RU)

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NUCLEAR POWER PLANTS; REACTOR SAFETY; RADIOACTIVE WASTE MANAGEMENT;
WASTE DISPOSAL; LIQUID WASTES; FLUIDIZED BEDS; ION EXCHANGE MATERIALS

The present article considers issues of liquid radioactive wastes management, including salt residues, ion exchange resin pulps, as well as with liquid organic waste at NPPs in connection with the need for their disposal and for the purpose of implementing the Federal Law on Radioactive Waste Management

В настоящей статье рассмотрены вопросы обращения с жидкими радиоактивными отходами, в том числе с солевыми кубовыми остатками, с пульпами ионообменных смол, а также с жидкими органическими отходами на АЭС в связи с необходимостью их захоронения и с целью выполнения Федерального Закона #Left-Pointing Double Angle Quotation Mark#Обращение с радиоактивными отходами#Right-Pointing Double Angle Quotation Mark#

Options for spent ion-exchange resins management

S12;S22

Savkin, A.E.; Ostashkina, E.E.; Pavlova, G.Yu.; Karlina, O.K. (FGUP #Left-Pointing Double Angle Quotation Mark#RADON#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Varianty obrashcheniya s otrabotavshimi ionoobmennymi smolami
p. 353-357

(RU)

7 refs., 1 fig., 1 tab.

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatoma), Moscow (RU)
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NUCLEAR FACILITIES; RADIOACTIVE WASTE MANAGEMENT; LIQUID WASTES; ION EXCHANGE MATERIALS; PYROLYSIS; COMBUSTION; VITRIFICATION

During the liquid radwaste processing at NPPs, concentrates and spent filter materials are formed, the main of which are ion exchange resins (IER). The paper considers thermal, or destructive, techniques for processing radioactive IER, including: incineration, pyrolysis, vitrification, hot pressing, plasma treatment, wet oxidation, oxidation in salt melt. The comparison of technologies for conditioning the radioactive spent IER is given in the paper

В ходе переработки ЖРО на объектах атомной энергетики образуются концентраты и отработавшие фильтроматериалы, основными из которых являются ионообменные смолы (ИОС). В работе рассмотрены термические, или деструктивные, методы переработки радиоактивных ИОС, включающие: сжигание, пиролиз, остекловывание, горячее прессование, плазменную обработку, мокрое окисление, окисление в расплаве солей. Приведено сравнение технологий кондиционирования радиоактивных отработанных ИОС

Increasing the efficiency of radioactive waste metal decontamination using ultrasonic devices and electrochemistry

S12;S22

Lebedev, N.M.; Aref'eva, A.N. (OOO #Left-Pointing Double Angle Quotation Mark#Aleksandra-Plyus#Right-Pointing Double Angle Quotation Mark#, Vologda (RU)); Vasil'ev, A.P.; Dubinin, G.V. (AO #Left-Pointing Double Angle Quotation Mark#NIKIEhT#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Doil'nitsyn, V.A.; Akatov, A.A. (SPbGTI(TU), Sankt-Peterburg (RU))

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Povyshenie ehffektivnosti dezaktivatsii metallicheskih radioaktivnykh otkhodov s ispol'zovaniem ul'trazvuka i ehlektrokhimii

p. 358-361

(RU)

9 refs., 4 figs.

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NUCLEAR POWER PLANTS; RADIOACTIVE WASTE MANAGEMENT; RADIOACTIVE WASTE DISPOSAL; DECONTAMINATION; ULTRASONIC WAVES; ELECTROCHEMISTRY

Authors discuss issues of radioactive waste metal decontamination using ultrasonic devices and electrochemistry. It is emphasized that deep decontamination of waste metal will not only help to achieve significant savings for the final radwaste isolation, but also to return high-quality metal to industrial use

В работе рассмотрены вопросы дезактивации металлических радиоактивных отходов (РАО) с использованием ультразвука и электрохимии. Отмечено, что глубокая дезактивация металлических РАО позволит достичь не только существенной экономии средств, направляемых на окончательную изоляцию РАО, но и вернуть высококачественный металл в промышленное использование

Preliminary operations on the decommissioning the 1-st stage of the Beloyarsk NPP

S22
Arkhipkin, R. Yu.; Mokshin, S.A.; Vinivitin, E.A. (Filial AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark# #Left-Pointing Double Angle Quotation Mark#Beloyarskaya Atomnaya Stantsiya#Right-Pointing Double Angle Quotation Mark#, Zarechnyj (RU))

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Provedenie rabot po podgotovke k vyvodu iz ehkspluatatsii 1-j ocheredi Beloyarskoj AEhS

p. 361-363

(RU)

2 figs.

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NUCLEAR POWER PLANTS; BELOYARSK-1 REACTOR; REACTOR SAFETY; REACTOR DECOMMISSIONING; REACTOR MATERIALS; SPENT FUELS; SPENT FUEL STORAGE

Preliminary operations on the decommissioning the 1st stage of the Beloyarsk NPP is presented. The importance of these operations is emphasized, since in Russia, in the next ten years 16 NPP units with different types of reactors are planned to be finally decommissioned

Описаны работы по подготовке к выводу из эксплуатации 1-й очереди Белоярской АЭС. Отмечается важность этих работ, поскольку в последующие десять лет в России планируется окончательно остановить 16 блоков АЭС с различными типами реакторов

LRW conditioning modular plants

S12;S22

Prokhorov, N.A.; Sorokin, V.T.; Babkin, D.N. (AO #Left-Pointing Double Angle Quotation Mark#ATOMPROEKT#Right-Pointing Double Angle Quotation Mark#, Sankt-Peterburg (RU))

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Modul'nye ustanovki konditsionirovaniya ZhRO

p. 364-368

(RU)

3 refs., 5 figs.

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RADIOACTIVE WASTE MANAGEMENT; RADIOACTIVE WASTE DISPOSAL; SOLID WASTES;
LIQUID WASTES; CEMENTING; ION EXCHANGE MATERIALS; RESINS

The paper presents liquid radioactive waste (LRW) conditioning modular plants: a unit for LRW cementing directly in a container with a fixed stirrer, and an installation for thermal-vacuum drying of spent ion-exchange resins with loading of dehydrated resins into a container without curing

В работе описаны модульные установки кондиционирования жидких радиоактивных отходов (ЖРО): установка цементирования ЖРО непосредственно в контейнере с неизвлекаемой мешалкой и установка термовакуумной сушки отработанных ионообменных смол с загрузкой обезвоженных смол в контейнер без отверждения

Spent ion-exchange resins pyrolysis plant

S12

Gurvich, I.B.; Kukiev, D.A. (AO #Left-Pointing Double Angle Quotation Mark#SverdNIIkhimmash#Right-

Pointing Double Angle Quotation Mark#, Ekaterinburg (RU)); Remez, V.P. (NPP #Left-Pointing Double

Angle Quotation Mark#Ehksorb#Right-Pointing Double Angle Quotation Mark#, Ekaterinburg (RU))

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Ustanovka piroliza otrabotannykh ionoobmennykh smol

p. 368-372

(RU)

2 refs., 6 figs., 2 tabs.

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RADIOACTIVE WASTE MANAGEMENT; LIQUID WASTES; ION EXCHANGE MATERIALS;
RESINS; PYROLYSIS; CEMENTING

Now, the issue of processing spent ion-exchange resins (IER) has not been resolved. As possible techniques for their conditioning, the following methods are mentioned in the article: drying with subsequent disposal in containers, cementing using polymer organic materials, pyrolysis and supercritical oxidation. The paper presents the results of laboratory studies of pyrolysis of spent IER

На сегодняшний день вопрос переработки отработанных ионообменных смол (ИОС) не решен. В качестве возможных методов их кондиционирования в статье упомянуты следующие методы: сушка с последующим захоронением в контейнерах, омоноличивание с применением полимерных органических материалов, пиролиз и сверхкритическое окисление, но в работе подробно представлены результаты лабораторных исследований пиролиза отработанных ИОС

Development of technology and equipment for mobile installation of electrochemical decontamination of metal surfaces

S12;S22

Karlin, Yu.V.; Yurchenko, A.Yu.; Sumenko, A.V. (FGUP #Left-Pointing Double Angle Quotation Mark#RADON#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Razrabotka tekhnologii i oborudovaniya dlya mobil'noj ustanovki ehlektrokhimicheskoy dezaktivatsii metallicheskih poverkhnostej

p. 373-374

(RU)

4 figs.

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NUCLEAR POWER PLANTS; REACTOR SAFETY; RADIOACTIVE WASTE MANAGEMENT;
DECONTAMINATION; RADIATION PROTECTION; HOT CELLS

The report presents the technology and equipment for solving problems associated with extending the lifetime of hot cells, boxes at NPPs, etc., often one of the conditions for extension is the decontamination of metal surfaces without dismantling the facility itself. The cost estimation of mobile installation of electrochemical decontamination of metal surfaces is given

В данном докладе представлены технология и оборудование для решения проблем, связанных с продлением сроков эксплуатации горячих камер, боксов на атомных электростанциях и т.п., причем часто одним из условий продления является дезактивация металлических поверхностей без демонтажа самого объекта. Сделана стоимостная оценка мобильной установки электрохимической дезактивации металлических поверхностей

The application of basalt fiber for dispersed reinforcement of containers used for radwaste disposal

S12

Yunusov, A.S. (Rossijskij Univ. Druzhy Narodov, Moscow (RU))

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Primenenie bazal'tovoj fibry pri dispersnom armirovanii kontejnerov, ispol'zuemykh dlya zakhoroneniya radioaktivnykh otkhodov

p. 374-378

(RU)

11 refs., 1 fig.

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RADIOACTIVE WASTE DISPOSAL; RADIOACTIVE WASTE MANAGEMENT; REACTOR SAFETY;
REINFORCED MATERIALS; REINFORCED CONCRETE; MATHEMATICS

The paper describes the use of basalt fiber for the disperse reinforcement of containers used for the disposal of radioactive wastes. The most effective for disperse reinforcement of containers used for disposal of radioactive wastes is basalt fiber

В работе описано применение базальтовой фибры при дисперсном армировании контейнеров, используемых для захоронения радиоактивных отходов. Наиболее эффективным для дисперсного армирования контейнеров, используемых для захоронения радиоактивных отходов, является базальтовая фибра

Features of technology for ozonization of concentrated discharges from radiochemical enterprises and bottoms of NPPs

S12
Basiev, A.A.; Ershov, B.N.; Seliverstov, A.F.; Lagunova, Yu.O. (IFKhEh RAN, Moscow (RU)); Basiev, A.G.; Kuz'min, V.N. (GNTs RF TRINITI, Moscow, Troitsk (RU)); Khubetsov, S.B. (OOO #Left-Pointing Double Angle Quotation Mark#Gella-TEhKO#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Osobennosti tekhnologii ozonirovaniya kontsentrirrovannykh stokov radiokhimicheskikh predpriyatij i kubovykh ostatkov AEhS

p. 378-380

(RU)

6 refs., 8 figs.

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NUCLEAR POWER PLANTS; RADIOACTIVE WASTE MANAGEMENT; RADIOACTIVE WASTE DISPOSAL; OZONIZATION; RADIOACTIVE EFFLUENTS; RADIOCHEMISTRY

The paper describes the features of the technology of ozonization of concentrated effluents of radiochemical enterprises and bottoms of NPPs. The advantage of applying ozonization technologies is their ecological compatibility and versatility. This is especially true for the purification of effluents containing toxic, difficult-to-oxidize admixtures of radiochemical plants, refineries, bottoms of NPPs, and others

В работе описаны особенности технологии озонирования концентрированных стоков радиохимических предприятий и кубовых остатков АЭС. Преимуществом применения технологий озонирования является их экологичность и универсальность. Это особенно относится к очистке стоков, содержащих токсичные трудноокисляемые примеси радиохимических предприятий, нефтеперегонных заводов, кубовых остатков АЭС, и другие

Scientific basis and technologies of updating methods for processing liquid waste at NPPs

S12;S22
Chugunov, A.S.; Vinnitskij, V.A.; Rumyantsev, A.V.; Nechaev, A.F. (Sankt-Peterburgskij Gosudarstvennyj Tekhnologicheskij Inst. (Tekhnicheskij Univ.), Sankt-Peterburg (RU))

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Nauchnye i tekhnologicheskie osnovy modernizatsi metodov pererabotki zhidkikh otkhodov AEhS

p. 380-385

(RU)

12 refs., 4 figs.

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NUCLEAR FACILITIES; RADIOACTIVE WASTE MANAGEMENT; LIQUID WASTES; WASTE PROCESSING; DECONTAMINATION; REACTOR SAFETY

The paper discusses the need to improve the technological platform for handling radioactive wastes at NPPs. The scientific and technological fundamentals of updating methods for processing liquid waste at NPPs are described

В работе обсуждается вопрос о необходимости совершенствования технологической платформы обращения с радиоактивными отходами на АЭС. Описаны научные и технологические основы модернизации методов переработки жидких отходов АЭС

Technology of extraction and processing of bituminous and salt compounds

S12;S22

Svittsov, A.A.; Khubetsov, S.B.; Serbin, V.V. (OOO #Left-Pointing Double Angle Quotation Mark#Nauchno-Proizvodstvennaya Firma #Left-Pointing Double Angle Quotation Mark#Gella-TEhKO#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Tekhnologiya izvlecheniya i pererabotki bitumnykh solevykh kompaundov

p. 385-387

(RU)

3 figs.

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NUCLEAR POWER PLANTS; REACTOR SAFETY; RADIOACTIVE WASTE MANAGEMENT;
 LIQUID WASTES; WASTE PROCESSING; BITUMINOUS MATERIALS

The technology of extraction and processing of bituminous salt compounds formed at NPPs is described in the paper. The installation for unloading bituminous radioactive waste (RW) from storage tanks is presented. It is asserted that a fully completed cycle of processing bitumen-treated radioactive wastes can reduce the volume of buried wastes in 500-1000 times

В работе описана технология извлечения и переработки битумных солевых компаундов, образующихся на АЭС. Представлена установка для выгрузки битумированных радиоактивных отходов (РАО) из емкостей хранения. Утверждается, что полностью завершённый цикл переработки битумированных РАО в 500-1000 раз сократит объём захораниваемых отходов

Analysis of the terminology and redundancy of NTD requirements regarding the storage of leaking SFA at NPP

S12

Shestakov, Yu.M.; Filippova, Yu.Yu. (AO #Left-Pointing Double Angle Quotation Mark#VNIAEhS#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Bunin, V.M. (TF AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Analiz terminologii i izbytochnosti trebovanij NTD v chasti khraneniya negermetichnykh OTVS na AEhS
 p. 388-391

(RU)

1 fig., 4 tabs.

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatoma), Moscow (RU)
 10th International scientific-technical conference #Left-Pointing Double Angle Quotation Mark#Safety, efficiency and economics of nuclear energy#Right-Pointing Double Angle Quotation Mark#. Plenary and sectional papers
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SPENT FUELS; SPENT FUEL ELEMENTS; SPENT FUEL STORAGE; LEAKS; STANDARDIZED TERMINOLOGY; LWGR TYPE REACTORS; WWER TYPE REACTORS

The authors of the article argue that in order to avoid contradictions, it is advisable to carry out the analysis of normative and technical documentation (NTD) in terms of determining the adequacy and correctness of

terminology describing the state of fuel elements and fuel assemblies, and, if necessary, correcting documents. The rules apply to projected, constructed and operated NPPs

Авторы статьи утверждают, что с целью исключения противоречий целесообразно проведение анализа нормативной и технической документации (НТД) в части определения достаточности и корректности терминологии, описывающей состояние ТВЭЛов и ТВС, и при необходимости выполнение корректировки документов. Действия правил распространяются на проектируемые, сооружаемые и эксплуатируемые атомные станции

Operational control of tightness of WWER and RBMK reactors spent nuclear fuel S12;S22

Chernov, V.A.; Nikolaev, S.A.; Masterov, A.V.; Kuzin, N.V. (AO #Left-Pointing Double Angle Quotation Mark#GNTs RF-FEhI#Right-Pointing Double Angle Quotation Mark#, Obninsk (RU))

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Operativnyj kontrol' germetichnosti otrabotavshego yadernogo topliva VVEhR i RBMK

p. 392-395

(RU)

3 figs., 1 tab.

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NUCLEAR POWER PLANTS; REACTOR SAFETY; LWGR TYPE REACTORS; WWER TYPE REACTORS; SPENT FUELS; LEAKS; DRY STORAGE

The article presents the system and method for monitoring the leak-tightness of spent fuel assemblies (SFA) of WWER-1000 reactors based on the measurement of the yield of ^{85}Kr from SFA, which help to control the tightness of SFA during the SFA drying, that does not require changes in the regulations for handling SFAs of reactors WWER-1000 when transferring to dry storage

В статье представлена разработанная система и методика контроля герметичности отработавших тепловыделяющих сборок (ОТВС) реакторов ВВЭР-1000, основанная на измерении выхода ^{85}Kr из ОТВС, которые позволяют проводить контроль герметичности ОТВС в процессе их осушки, что не требует изменений регламента обращения с ОТВС реакторов ВВЭР-1000 при их переводе на сухое хранение

The use of the MKS installations for measuring the burnup depth, isotopic composition, and residual heat of SNF

S22

Nikolaev, S.A.; Chernov, V.A.; Volkov, V.S.; Masterov, A.V.; Isaev, S.G.; Kuzin, N.V. (AO #Left-Pointing Double Angle Quotation Mark#GNTs RF-FEhI#Right-Pointing Double Angle Quotation Mark#, Obninsk (RU)); Lobkov, Yu.M.; Bunin, V.M. (AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Mironov, K.V. (Filial AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark# #Left-Pointing Double Angle Quotation Mark#Kol'skaya Atomnaya Stantsiya#Right-Pointing Double Angle Quotation Mark#, Polyarnye Zori (RU))

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Ob ispol'zovanii ustanovok serii MKS dlya izmerenij glubiny vygoraniya, izotopnogo sostava i ostatochnogo teplovydeleniya OYaT

p. 395-400

(RU)

5 figs., 4 tabs.

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WWER TYPE REACTORS; LWGR TYPE REACTORS; SPENT FUEL ELEMENTS; SPENT FUEL STORAGE; BURNUP; MEASURING INSTRUMENTS

To measure the burnout of spent fuel assemblies (SFA) in Russia, the MKS series installations were developed. They were introduced at NPPs with WWER-440 reactors (Kola and Novovoronezh NPP) and WWER-1000 reactors (Kalinin NPP). The operation of these plants is described in the report

Для измерений выгорания ядерного топлива отработавших тепловыделяющих сборок (ОТВС) в промышленных условиях в России разработаны установки серии МКС. Они внедрены на АЭС с реакторами ВВЭР-440 (Кольская и Нововоронежская АЭС) и реакторами ВВЭР-1000 (Калининская АЭС). В работе описана эксплуатация этих установок

On the use of subcriticality measurement facilities of WWER and RBMK SNF storages for nuclear safety justification

S12

Masterov, A.V.; Nikolaev, S.A.; Chernov, V.A.; Ibragimov, R.L.; Volkov, V.S. (AO #Left-Pointing Double Angle Quotation Mark#GNTs RF-FEhI#Right-Pointing Double Angle Quotation Mark#, Obninsk (RU)); Seelev, I.N.; Nevin, S.R.; Kochurov, A.A. (FGUP #Left-Pointing Double Angle Quotation Mark#GKhK#Right-Pointing Double Angle Quotation Mark#, Zheleznogorsk Krasnoyarskogo Kraya (RU))

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Ob ispol'zovanii ustanovok izmereniya podkritichnosti khranilishch OYaT VVEhR i RBMK dlya obosnovaniya yadernoj bezopasnosti

p. 400-405

(RU)

3 refs., 4 figs., 2 tabs.

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CRITICALITY; SPENT FUELS; STORAGE FACILITIES; SPENT FUEL STORAGE; WET STORAGE; RADIATION PROTECTION; BREEDING; NEUTRONS; NEUTRON DETECTORS; PULSE TECHNIQUES; COMPUTER CODES; ERRORS

The pulse method of subcriticality measurement and facilities for subcriticality measurement UIP-006 and SKP-KhOT are described, and the results of criticality measurements of specified areas of spent fuel storage pool (SPSP) of Leningrad NPP and spent fuel storage facility (SFSF-1) of FSUE #Left-Pointing Double Angle Quotation Mark#MCC#Right-Pointing Double Angle Quotation Mark# are present. The method is based on measuring time distribution of neutron flux density in the medium after the injection of fast neutron pulse. Design of facilities allows to measure subcriticality of specified areas of SPSP and SFSF-1 quickly and without additional movements of nuclear fuel. Procedures developed for subcriticality measurement are certified and provide subcriticality measurement of SPSP and SFSF-1 in 0.3-1.0 range with an accuracy of no more than #+-#10% for confidence probability 0.95. Software of the facilities allows to determine the most dangerous spent fuel storage facility areas before measurement

Описан импульсный метод измерения подкритичности и установки измерения подкритичности УИП-006 и СКП-ХОТ, а также представлены результаты измерений подкритичности заданных областей бассейна выдержки (БВ) хранилища отработавшего ядерного топлива (ХОЯТ) Ленинградской АЭС и хранилища отработавшего топлива (ХОТ-1) ФГУП #Left-Pointing Double Angle Quotation Mark#ГХК#Right-Pointing Double Angle Quotation Mark#. Метод основан на измерении временного распределения плотности нейтронного потока в среде после инъекции в нее импульса быстрых нейтронов. Конструкция установок позволяет оперативно и без дополнительных перемещений ядерного топлива измерять подкритичность заданных областей БВ ХОЯТ и ХОТ-1. Разработанные для измерения подкритичности методики аттестованы и обеспечивают измерения подкритичности БВ-ХОЯТ и ХОТ-1 в диапазоне 0,3-1,0 с погрешностью не более #+-#10% для доверительной вероятности 0,95. Программное обеспечение установок позволяет перед измерениями определять наиболее опасные области хранилищ ОЯТ

Nuclear safety during the storage and transportation to NPP of new type FA with increased uranium content and enrichment up to 5.0%

S42

Osadchij, A.I.; Borisenkov, A.Eh.; Kalugin, A.V. (NITs #Left-Pointing Double Angle Quotation Mark#Kurchatovskij Inst.#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))
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Yadernaya bezopasnost' pri khranении i transportirovanii na AEhS novykh vidov TVS s povyshennoj uranoemkost'yu i obogashcheniem do 5,0%
p. 405-408
(RU)
4 refs., 8 figs.

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FUEL ASSEMBLIES; NUCLEAR FUELS; URANIUM; CONCENTRATION RATIO; FUEL ELEMENTS; EFFICIENCY; FUEL STORAGE POOLS; FUEL RACKS; TRANSPORT; NUCLEAR POWER PLANTS; DESIGN-BASIS ACCIDENTS; RADIATION PROTECTION; STAINLESS STEELS; BORON ADDITIONS; GADOLINIUM OXIDES; COMPUTERIZED SIMULATION

Aspects of nuclear safety during the storage and transportation of new types of fuel assemblies with increased uranium content and enrichment of up to 5.0% are under consideration. It is noted that nuclear safety during storage and transportation of new types of fuel assemblies is provided under normal operating conditions and design basis accidents. Nuclear safety in the fuel assembly storage pools is proved when there are fuel elements with gadolinium in fuel assemblies. It is pointed out that for absolute nuclear safety in fuel assembly storage pools it is necessary to use hexagonal tubes from boron steel (ChS-82) with improved geometry. The use of such tubes will ensure nuclear safety in severe accidents with fuel disruption

Рассмотрены аспекты ядерной безопасности при хранении и транспортировании на АЭС новых видов ТВС с повышенной ураноемкостью и обогащением до 5,0%. Отмечается, что ядерная безопасность при хранении и транспортировании на АЭС новых видов ТВС обеспечивается в условиях нормальной эксплуатации и при проектных авариях. Ядерная безопасность в бассейнах выдержки обеспечивается при наличии ТВЭГ в ТВС. Подчеркивается, что для безусловного обеспечения ядерной безопасности в бассейнах выдержки необходимо использование шестигранных труб из бористой стали (ЧС-82) с улучшенной геометрией. Использование таких труб позволит обеспечить ядерную безопасность в тяжелых авариях с разрушением ТВС

Double-purpose transport package TUK-137D for transportation and long-term storage of WWER-1000/1200 reactors SNF

S42
Kozhaev, L.N.; Lykov, D.N.; Naumov, M.A. (FGUP #Left-Pointing Double Angle Quotation Mark#RFYaTs-VNIIehF#Right-Pointing Double Angle Quotation Mark#, Sarov (RU))

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Dvukhtsevoj transportnyj upakovochnyj komplekt TUK-137D dlya transportirovaniya i dlitel'nogo khraneniya OYaT reaktorov VVEhR-1000/1200

p. 408-412

(RU)

2 refs., 7 figs., 3 tabs.

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NUCLEAR POWER PLANTS; TRANSPORT; PACKAGING; SPENT FUEL CASKS; SPENT FUEL ELEMENTS; WWER TYPE REACTORS; RADIATION PROTECTION; MECHANICAL PROPERTIES; DRY STORAGE; SPENT FUEL STORAGE; TEMPERATURE DEPENDENCE; TEMPERATURE RANGE 0400-1000 K

The concept of a dry container storage with the use of double-purpose containers - transport packages (TUK) for transportation and long-term storage (up to 60 years) of WWER-1000 spent fuel is under consideration. To justify TUK-137D design safety calculations of strength, thermal calculation, calculation of tightness, calculations of radiation and nuclear safety have been carried out. The results of calculations have confirmed not only the ability of the container to withstand regulated emergency mechanical impacts with preservation of integrity, but also high accuracy of preliminary calculating forecast. Currently double-purpose transport package TUK-137D for 20 spent fuel assemblies has been designed, which meets all standards and safety regulations. It is noted that the introduction of TUK-137D in fuel cycle of nuclear power plants with WWER-1000 reactor facilities allows to transport and store safely a large amount of spent fuel by increasing storage facilities capacity, as well as to decrease costs for transportation and storage of spent fuel

Рассмотрена концепция сухого контейнерного хранения с использованием двухцелевых контейнеров - транспортных упаковочных комплектов (ТУК) для транспортирования и длительного хранения (до 60 лет) ОЯТ реактора ВВЭР-1000. Для обоснования безопасности конструкции ТУК-137Д были проведены расчеты на прочность, тепловой расчет, расчет на герметичность, расчеты на радиационную и ядерную безопасность. Результаты расчетов подтвердили не только способность контейнера выдерживать регламентированные аварийные механические воздействия с сохранением герметичности, но и высокую точность предварительного расчетного прогноза. На сегодняшний день разработан двухцелевой транспортный упаковочный комплект ТУК-137Д вместимостью 20 отработавших топливовыделяющих сборок, который отвечает всем нормам и правилам безопасности. Отмечается, что внедрение ТУК-137Д в топливный цикл атомных станций с РУ типа ВВЭР-1000 позволит безопасно перевозить и хранить большой объем ОЯТ, увеличив вместимость хранилищ, а также снизить затраты на перевозку и хранение отработанного топлива

Fitting of the upper bearing seal of MCP-1 and 2 of automated fire alarm aspiration system circuits of #Left-Pointing Double Angle Quotation Mark#VESDA#Right-Pointing Double Angle Quotation Mark# type

S22;S42

Nosov, Yu.V.; Volokitin, A.P. (AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark#, Beloyarskaya AEhS, Zarechnyj (RU))

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Osnashchenie verkhnego podshipnikovogo uplotneniya GTsN-1 i 2 konturov avtomaticheskoy aspiratsionnoj pozharnej signalizatsii tipa #Left-Pointing Double Angle Quotation Mark#VESDA#Right-Pointing Double Angle Quotation Mark#

p. 413

(RU)

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BELOYARSK-3 REACTOR; BELOYARSK-4 REACTOR; FIRE DETECTORS; FIRE PREVENTION; ALARM SYSTEMS; RADIATION PROTECTION; RISK ASSESSMENT; PERSONNEL; DOSE RATES; BEARINGS

At the Beloyarsk NPP aspirating smoke detector of VESDA type has been tested. These detectors have been installed in three rooms of the primary circuit. In these rooms there are radiation fields with dose rate over 20 mSv/s. VESDA aspirating warning alarm system used on unit 3 (in upper bearing assembly between motor and sodium pump of main circulating pump of primary and secondary circuits) and unit 4 (in air duct of exhaust ventilation on all three loops in the system of emergency cooling down of air exchanger and spent assembly drums). This system of increased reliability designed for nuclear energy industry is provided permanent diagnostics of all elements included in it, fire detection on early stages and continuous monitoring of processing equipment effecting on nuclear safety of power units. All of this decrease significantly the fire risk level for people inside Beloyarsk NPP buildings

На Белоярской АЭС провели испытания аспирационного пожарного извещателя типа VESDA. Пожарные извещатели были установлены в трех помещениях I контура. В этих помещениях присутствуют радиационные поля мощностью дозы свыше 20 мЗв/с. Система аспирационной аварийно-предупредительной сигнализации VESDA была также применена на блоке 3 (в верхнем подшипниковом узле между электродвигателем и насосом натрия ГЦН 1 и 2 контуров) и блоке 4 (в воздуховодах вытяжной вентиляции на всех трех петлях в системе аварийного расхолаживания воздушного теплообменника и в барабанах отработанных сборок). Эта система повышенной надежности, разработанная для использования в атомной энергетике, обеспечивает постоянную диагностику всех элементов, входящих в эту систему, обнаружение пожара на ранней стадии его развития и постоянный мониторинг работы технологического оборудования, влияющего на ядерную

безопасность энергоблоков. Все это значительно снижает уровень пожарного риска для людей, находящихся в помещениях зданий и сооружений Белоярской АЭС

Investigations of application possibility of compressed air foam for extinction of energized electrical equipment at nuclear power facilities

S42;S22

Aleshkov, M.F.; Fedyaev, V.D. (Akademiya GPS MChS Rossii, Moscow (RU))

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Issledovaniya vozmozhnosti primeneniya kompressionnoj peny dlya tusheniya ehlektrooborudovaniya pod napryazheniem na ob"ektakh atomnoj ehnergetiki

p. 414-417

(RU)

8 refs., 3 figs.

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NUCLEAR POWER PLANTS; ELECTRICAL EQUIPMENT; FIRES; FIRE FIGHTING; FOAMS

Compressed air foam system is one of the actual modern technologies of fire fighting. Technology with compressed foam (CF) allows to force foaming of foam solution with compressed air and to play prepared air-mechanical foam instead of aqueous solution of foam agent on fire. In case of fire fighting by CF there is a number of distinctive features: high range of foam (up to 25 m at a pressure of 7 atm); low consumption of extinguishing agent (1.5-2 l/s); absence of liquid phase; the foam obtained has a uniform textured structure (bubble size - 1.5-2 mm); high adhesion ability of foam; possibility of lift off to a height of 200 m. For safe and effective use of compressed air foam system for electrical fires, it is necessary to determine the value of leakage current along a jet; to determine the effect of distance from energized electrical equipment when using CF; to determine the dependence of electro-physical indicators of CF on the water-air mixture ratio

Технология пожаротушения компрессионной пеной (КП) является одной из актуальных современных технологий пожаротушения. Технология с КП позволяет производить принудительное вспенивание раствора пенообразователя сжатым воздухом и подавать на тушение готовую воздушно-механическую пену, а не водный раствор пенообразователя. При тушении пожаров КП имеется ряд отличительных особенностей: высокая дальность подачи (до 25 м при давлении 7 атм); низкий расход огнетушащего вещества (1,5-2 л/с); отсутствие жидкой фазы; полученная пена имеет равномерное структурированное строение (размер пузырьков - 1,5-2 мм); высокая адгезионная способность пены; возможность подач на высоту до 200 м. Для безопасного и эффективного использования систем пожаротушения КП для тушения пожаров электрооборудования под напряжением необходимо определить значение тока утечки по струе; определить влияние расстояния от электрооборудования

под напряжением при подаче КП; определить зависимость электрофизических показателей КП от коэффициента водо-воздушной смеси

Application of robotic systems for the purpose of fire fighting technology on nuclear power facilities

S42;S22

Aleshkov, M.V.; Gusev, I.A. (Akademiya GPS MChS Rossii, Moscow (RU))

10th International scientific-technical conference #Left-Pointing Double Angle Quotation

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Primenenie robototekhnicheskikh kompleksov dlya obespecheniya tekhnologii pozharotusheniya na ob"ektakh atomnoj ehnergetiki

p. 417-421

(RU)

6 refs., 5 figs., 4 tabs.

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NUCLEAR POWER PLANTS; INDUSTRIAL PLANTS; FIRES; FIRE FIGHTING; ROBOTS

Certain samples of fire robots are under consideration. Mobile robot system of fire reconnaissance and fighting MRK-RP is intended for liquidation of technological accidents and fires attended by risk of loss and injury of fire personnel as well as for reconnaissance in the body of fire. Mobile robotic extinguisher MUPR is intended for reconnaissance and fire control in the areas of emergency in settlements, industry and power engineering facilities. Mobile robotic fire-fighting unit MRUP is intended for resolving complex operating objectives at fire breaking-out in tunnels, industrial plants and power engineering facilities. Multifunctional fire extinguishing robotic system of middle range EL'-4 is intended for works in the areas of increased temperatures during liquidation of technological accidents and fires attended by risk of loss and injury of fire personnel, for reconnaissance in the body of the fires and transportation of extinguishing medium to fire body. After refitting it can be used for recovery of accidents with chemical and radiation consequences and in the works with explosive objects

Рассмотрены некоторые образцы пожарной робототехники. Мобильный робототехнический комплекс разведки и пожаротушения МРК-РП предназначен для ликвидации техногенных аварий и пожаров, сопряженных с риском гибели и травматизма личного состава, а также для проведения разведки в очагах возникновения пожаров. Мобильная установка пожаротушения роботизированная МУПР предназначена для проведения разведки и тушения пожара в зонах чрезвычайных ситуаций в населенных пунктах, на объектах промышленности, энергетики. Мобильная роботизированная установка пожаротушения МРУП предназначена для решения сложных оперативных задач при возникновении пожаров в туннелях, на промышленных предприятиях и на объектах энергетики.

Многофункциональный робототехнический комплекс пожаротушения среднего класса ЕЛБ-4 предназначен для работы в зоне повышенных температур при ликвидации техногенных аварий и пожаров, сопряженных с рисками гибели и травматизма личного состава, для проведения разведки в очагах возникновения пожаров и доставки в очаг пожара огнетушащих средств. При соответствующем дооснащении он может использоваться при ликвидации последствий аварий, отягощенных химическими и радиационными загрязнениями и работе со взрывоопасными предметами

The newest technologies of fire and explosion prevention on the FEC facilities by quick-hardening foams on the base of structured silica particles

S22;S42

Abduragimov, I.M.; Kuprin, G.N.; Kuprin, D.S. (OOO #Left-Pointing Double Angle Quotation Mark#NPO #Left-Pointing Double Angle Quotation Mark#SOPOT#Right-Pointing Double Angle Quotation Mark#, Sankt-Peterburg (RU))

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Novejshie tekhnologii pozharovzryvopredotvrashcheniya na ob"ektakh TEhK bystrotverdeyushchimi penami na osnove strukturirovannykh chastits kremnezema

p. 421-425

(RU)

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FIRES; FIRE FIGHTING; FOAMS; NUCLEAR INDUSTRY; EXPLOSIONS; FIRE PREVENTION; RADIATION PROTECTION

The new technology of fire and explosion prevention at fire and explosion hazardous facilities of fuel and energy complex with the use of quick-hardening foam on the base of structured silica particles is developed. It is shown that such foam suppresses a fire 3-5 times more quickly than usual water-foam fire-extinguishing media. Hardened foam has increased adhesive properties which prevent fire propagation, foam doesn't break down even at the temperature more than 1000#Degree Sign# C. The quick-hardening foam has increased isolating and shielding properties which prevent discharge of emergency chemically hazardous substances vapors during more than 20-24 h. The possibility of adding radio absorption properties to the foam by introduction of 5 #mu#m thickness carbon fiber materials into the foam structure is studied. The appliance are developed which allow to play jets of quick-hardening foam on distance from 4 up to 100 m

Разработана новая технология пожаровзрыво-предотвращения на пожаровзрывоопасных объектах топливноэнергетического комплекса с помощью быстротвердеющей пены на основе

структурированных частиц кремнезема. Показано, что такая пена обладает в 3-5 раз более высокой скоростью прекращения горения по сравнению с обычными водопенными средствами пожаротушения. Отвердевшая пена обладает повышенными адгезионными свойствами, препятствующими распространению пламени, не разрушаясь даже при температуре более 1000#Degree Sign# С. Быстротвердеющая пена обладает повышенными изолирующими и экранирующими свойствами, сдерживающими выход паров аварийно-химически опасных веществ в течение более 20-24 ч. Изучена также возможность придания пене радиопоглощающих свойств с помощью внедрения в структуру пены углеволокнистых материалов с толщиной около 5 мкм. Разработаны технические средства, позволяющие подавать струи быстротвердеющей пены на расстояние от 4 до 100 м

Promising means of automatic detection and suppression of fires

S42

Fomin, V.I. (Akademiya GPS MChS Rossii, Moscow (RU))

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Perspektivnye sredstva avtomaticheskogo obnaruzheniya i tusheniya pozharov

p. 425-429

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5 refs.

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NUCLEAR POWER PLANTS; FIRES; FIRE PREVENTION; FIRE FIGHTING; FIRE DETECTORS; WATER; NITROGEN

The conception of nuclear power plant fire fighting system provides exclusion or minimization of hazardous fire effects by its liquidation on the early stage what determines the application of reliable and effective means of fire detection and extinction. Modern methods of early fire detection are under consideration: control of air chemical composition (most of fire detectors use CO as the target gas); aspiration one which uses forced air sampling from protecting volume with monitoring by ultra sensitive laser smoke detectors; as well as various fire detectors (multisensor, multicriterial, integrated). Application of water spray and nitrogen extinguishing installations is discussed

Концепция системы пожарной безопасности АЭС предусматривает исключение или сведение к минимуму опасного воздействия пожара за счет его ликвидации на ранней стадии, что обуславливает применение надежных и эффективных средств обнаружения и тушения пожаров. Рассмотрены современные способы раннего обнаружения пожара: контроль химического состава воздуха (в качестве целевого газа большинство газовых пожарных извещателей используют CO);

аспирационный, использующий принудительный отбор воздуха из защищаемого объема с мониторингом ультрачувствительными лазерными дымовыми извещателями; а также различные пожарные извещатели (мультисенсорные, мультикритериальные, комбинированные). Обсуждается использование тонкораспыленной воды и азотных установок для тушения пожаров

Warranty lifetime provision of flame proofing of supporting irons by the method of accelerated environmental tests

S42;S22

Krutov, A.M. (AO #Left-Pointing Double Angle Quotation Mark#AtomRegionStroj#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Strakhov, V.L.; Kul'kov, A.A.; Garashchenko, A.N.; Dalinkevich, A.A. (OAO #Left-Pointing Double Angle Quotation Mark#TsNII Spetsial'nogo Mashinostroeniya#Right-Pointing Double Angle Quotation Mark#, Khot'kovo Moskovskoj Obl. (RU))

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Obespechenie garantijnykh srokov ehkspluatatsii ognezashchity nesushchikh metallokonstruktsij metodom uskorennykh klimaticheskikh ispytanij

p. 429-434

(RU)

8 refs., 5 figs.

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800 p.

NUCLEAR POWER PLANTS; FIRE RESISTANCE; THERMAL INSULATION; SERVICE LIFE; MATHEMATICAL MODELS; FIRES; AGING; WEATHERING

The consideration is given to the basics of the methodology of justification and confirmation of warranty lifetimes of operational properties of products from polymer composites, as well as to the methodology of design and effectiveness evaluation of the application of fireproofing coatings which allows to take into account the difference between temperature conditions of fire exposure and the standard mode. This technique involves accelerated testing in special climatic chambers to identify and predict the changes of properties of materials and construction fragments during climatic ageing in product operation conditions. The mathematical description of the ageing process of fire protective coatings is present. The developed techniques and programs of thermotechnical calculations are an effective tool to simulate the effect of different temperature modes of fire which are specific for different scenarios of accident development in turbine halls and other buildings of NPPs and to choose the optimal means of fire protection for specific constructions

Рассматриваются основные положения методики обоснования и подтверждения гарантийных сроков сохранения эксплуатационных свойств изделий из полимерных композиционных материалов, а также

методики проектирования и оценки эффективности применения огнезащитных покрытий, позволяющей учитывать отличие температурных режимов огневого воздействия от стандартного режима. Данная методика предполагает проведение ускоренных испытаний в специальных климатических камерах для определения и прогнозирования изменения свойств материалов и фрагментов конструкций при климатическом старении в условиях эксплуатации изделий. Приведено математическое описание процесса старения огнезащитных покрытий. Разработанные методики и программы теплотехнических расчетов являются эффективным инструментом для моделирования влияния различных температурных режимов пожара, характерных для различных сценариев развития аварийной ситуации в машинных залах и других сооружениях АЭС, и выбора оптимальных средств огнезащиты для конкретных конструкций

Usage of compressional technology of foam forming in the modern fire-fighting media at NPP objects

S42;S22

Burdin, A.M.; Parkhomenko, S.A. (Uralo-Sibirskaya Pozharno-Tekhnicheskaya Kompaniya, Chelyabinsk (RU))

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Ispol'zovanie kompressionnoj tekhnologii penoobrazovaniya v sovremennykh sredstvakh pozharotusheniya na ob'ektakh AEhS

p. 434-440

(RU)

1 ref., 2 figs., 1 tab.

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NUCLEAR POWER PLANTS; FIRES; FIRE FIGHTING; FOAMS; EFFICIENCY; RECOMMENDATIONS

The results of compressed foam useful properties study are present. This foam is formed in a special mixing chamber by mixing foam solution with compressed air from the compressor. The application of such foam gives a number of objective advantages that allow to improve the effectiveness of fire fighting. As a result of the carried out research work, which includes a large amount of full-scale tests detailed practical recommendations (guidelines) have been developed on the use of compressed air foam technology and, among other things, on tactics of its application in mobile and fixed extinguishing installations in relation to NPP objects

Приведены результаты изучения полезных свойств компрессионной пены. Такая пена образуется в специальной смесительной камере путем смешивания раствора пенообразователя со сжатым

воздухом из компрессора. Применение такой пены дает целый ряд объективных преимуществ, которые позволяют повысить эффективность пожаротушения. В результате проведенной исследовательской работы, включающей в себя большой объем натуральных испытаний, были разработаны подробные практические рекомендации (методические указания) по использованию компрессионной технологии пенообразования, в том числе по тактике ее применения в мобильных и стационарных установках пожаротушения, применительно к объектам АЭС

Modern equipment for extinguishing possible fires at nuclear power enterprises

S42;S22

Churkin, V.E. (OOO #Left-Pointing Double Angle Quotation Mark#TD #Left-Pointing Double Angle Quotation Mark#Arsenal PTV#Right-Pointing Double Angle Quotation Mark#, Sankt-Peterburg (RU))

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Sovremennoe oborudovanie dlya tusheniya vozmozhnykh pozharov na predpriyatiyakh atomnoj ehnergetiki p. 440-446

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800 p.

NUCLEAR POWER PLANTS; FIRES; FIRE FIGHTING; FIRE EXTINGUISHERS; REMOTE HANDLING; JETS

The modern fire extinguishing equipment with different fire-fighting monitors of AWG company (Germany) using in nuclear infrastructure is under consideration. The primary use of fire-fighting monitors is an effective remote direct application that allows to conduct fire fighting at a distance from the fire front within a radius of a jet. The characteristics of stationary and portable fire fighting monitors with manual or remote control are given

Рассмотрено современное оборудование пожаротушения с различными пожарными лафетными стволами (мониторами) фирмы AWG (Германия), применяемое на объектах атомной энергетики. Основным назначением пожарных лафетных стволов (мониторов) является дистанционная эффективная подача огнетушащего вещества на очаг возгорания, что позволяет производить пожаротушение на расстоянии от огневого фронта в пределах радиуса действия струи. Приведены характеристики стационарных и переносных лафетных стволов с ручным или дистанционным управлением

Main problems during the design of NPP fire safety system and possible ways of their

solution**S42;S22**

Lanin, D.G. (AO #Left-Pointing Double Angle Quotation Mark#ATOMPROEKT#Right-Pointing Double Angle Quotation Mark#, Sankt-Peterburg (RU))

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Osnovnye problemy pri proektirovanii sistemy obespecheniya pozharnoj bezopasnosti AEhS i vozmozhnye puti ikh resheniya

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800 p.

NUCLEAR POWER PLANTS; FIRE PREVENTION; SAFETY; LEGAL ASPECTS; DESIGN

According to the results of work with international, foreign and domestic regulatory framework, taking into account the experience of designing nuclear power plants in Russia and abroad, a number of proposals to improve the design process is done. It is pointed out that it is necessary to create interagency body for NPP fire safety regulation; to develop normative legal act regulating general problems of NPP fire safety; to divide statutorily areas of responsibility for participants of the process of fire safety during NPP design, justification of NPP safety and monitoring; to develop and legitimate high-tech validation tools of NPP correspondence to fire safety requirements on the base of deterministic and probabilistic analysis of fires as well as fire simulation methods and inspection of people safety; to develop mechanisms for evaluating economic efficiency of design solutions in fire safety, etc.

По результатам работы с международной, зарубежной и отечественной нормативной базой, с учетом имеющегося опыта проектирования АЭС в России и за рубежом, сделан ряд предложений по совершенствованию процесса проектирования. Отмечается необходимость создания межведомственного органа регулирования пожарной безопасности для АЭС; разработки нормативного правового акта, регулирующего общие вопросы обеспечения пожарной безопасности АЭС; законодательного разделения зон ответственности для участников процесса обеспечения пожарной безопасности при проектировании АЭС, обосновании безопасности АЭС и осуществлении контроля (надзора); разработки и легитимации высокотехнологичных инструментов подтверждения соответствия АЭС требованиям пожарной безопасности на основе детерминистического и вероятностного анализа пожаров, а также методов моделирования пожара и проверки условий обеспечения безопасности людей; разработки механизмов оценки экономической эффективности проектных решений в области обеспечения пожарной безопасности, и др.

Mobile robotic installation (MRUP). Experience of its application and usage specificity on nuclear power objects

S42;S22

Kovalev, N.P. (OOO #Left-Pointing Double Angle Quotation Mark#Innovatsionnye Tekhnologii Spaseniya#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Mobil'naya robotizirovannaya ustanovka (MRUP). Opyt ee primeneniya i spetsifika ispol'zovaniya na ob'ektakh atomnoj ehnergetiki

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800 p.

NUCLEAR POWER PLANTS; FIRES; FIRE FIGHTING; FIRE EXTINGUISHERS; REMOTE CONTROL; ROBOTS

The consideration is given to the mobile robotic fire-fighting appliances (MRFA) designed to conduct reconnaissance and fire fighting in the emergency zones in built-up areas, industrial installations, power engineering facilities (including nuclear power plants) where personnel occurrence is unacceptable. MRFA consists of the original chassis powered by two electric motors and a multi-functional adjustable nozzle powered by other two electric motors. MRFA is operated by two joysticks simultaneously from remote control panel. MRFA allows to extinguish fires effectively, contributes to dilution and cooling of smoke zone by atomized water mist. By clearing the path to itself MRFA is able to rich the body of fire as quick as possible and to play to it

Рассмотрены мобильные установки пожаротушения роботизированные (МУПР), предназначенные для проведения разведки и тушения пожара в зонах чрезвычайных ситуаций в населенных пунктах, на промышленных объектах, объектах энергетики (в том числе и АЭС), где нахождение личного состава недопустимо. МУПР состоит из оригинального шасси, приводимого в движение двумя электродвигателями и многофункционального пожарного ствола, приводимого в движение двумя другими электродвигателями. Управление МУПР осуществляется одновременно двумя джойстиком с пульта дистанционного управления. МУПР позволяет эффективно тушить пожары, способствует разбавлению и охлаждению зоны задымления водяным туманом. Расчищая себе путь, МУПР способен максимально быстро добраться до очага и подать огнетушащие вещества в очаг пожара

Improvement of nuclear power objects fire extinguishing

S42;S22*Ishchenko, A.D. (Akademiya GPS MChS Rossii, Moscow (RU))***10th International scientific-technical conference #Left-Pointing Double Angle Quotation Mark#Safety, efficiency and economics of nuclear energy#Right-Pointing Double Angle Quotation Mark#**

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Sovershenstvovanie tusheniya pozharov ob"ektov atomnoj ehnergetiki

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NUCLEAR POWER PLANTS; FIRES; FIRE FIGHTING; SMOKES; FIRE EXTINGUISHERS; PERSONNEL; COMPRESSED AIR; SAFETY

It is possible to minimize the consequences of the fire at the nuclear power facility by timely fire extinguishing. In order to reach that it is necessary to assure continuous operation of fire-fighters in irrespirable media near the fire body along with improving the extinguishing agents application. The possible method of fire localization in the room with hazardous factors to human life and health is total flooding without man entry into the room fire. Application of total flooding cannot replace a plan of the fire fighting in most cases but it allows to reduce greatly risk for participants of fire fighting. Modern fire-fighting technologies allow to use both stationary and mobile means under conditions of nuclear power facilities. Technical means ensuring operation in irrespirable media are analyzed

Минимизации последствий пожара на объекте атомной энергетики возможно добиться своевременностью тушения пожара, которой, наряду с совершенствованием подачи огнетушащих веществ, способствует обеспечение непрерывной работы пожарных в условиях непригодной для дыхания среды у очага пожара. Возможным методом локализации пожара в помещении с наличием опасных для жизни и здоровья человека факторов является объемное тушение, не подразумевающее входа человека в помещение пожара. Применение объемного тушения в большинстве случаев не может заменить комплекса мер по обеспечению тушения пожара, но в значительной мере позволяет снизить уровень опасности для участников тушения пожара. Разработанные к настоящему времени технологии пожаротушения позволяют использовать как стационарные, так и мобильные средства в условиях объектов атомной энергетики. Проанализированы технические средства для обеспечения работ в непригодной для дыхания среде

On the peculiarities of application of NPP operations personnel emergency protection kit S42*Ishchenko, A.D.; Fogilev, I.S. (Akademiya GPS MChS Rossii, Moscow (RU))***10th International scientific-technical conference #Left-Pointing Double Angle Quotation**

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Ob osobennostyakh primeneniya avariynogo komplekta zashchity operativnogo personala na atomnykh ehlektrostantsiyakh

p. 459-462

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NUCLEAR POWER PLANTS; FIRES; REACTOR OPERATORS; SAFETY; EQUIPMENT

The composition, purpose, peculiarities of preparation and use and test results of emergency protection kit (EPK) for nuclear power plant operation personnel (NPP OP) for their operation during a fire (accident) are reviewed. Application of EPK for NPP OP with the use of industrial wheeled case allows to minimize transportation time of necessary protection means to fire (accident) place and helps to liquidate fire on early stages of its development. Use of EPK allows to prevent injury NPP OP when operating in gassed and (or) irrespirable media under the impact of hazardous factors of fire

Рассмотрен состав, назначение, особенности подготовки и применения и результаты испытаний аварийного комплекта средств защиты (АКЗ) оперативного персонала (ОП) АЭС для их работы при пожаре (аварии). Применение АКЗ ОП АЭС с использованием промышленного кейса на колесах позволяет минимизировать время доставки необходимых средств защиты к месту возникновения пожара (аварии) и способствует ликвидации пожара на ранних стадиях его развития. Использование АКЗ позволяет не допустить травмирования ОП АЭС при работе в загазованной и (или) непригодной для дыхания среде в условиях воздействия опасных факторов пожара

Flora and fauna monitoring #Em Dash# promising direction in ecological monitoring of environmental conditions in the vicinity of Balakovo NPP

S54

Tregub, A.P.; Rastegaev, O.Yu.; Khot'ko, N.I.; Ionova, E.A. (Gosudarstvennyj Nauchno-Issledovatel'skij Inst. Promyshlennoj Ehkologii, Saratov (RU)); Voronin, M.Yu. (Saratovskij Natsional'nyj Issledovatel'skij Gosudarstvennyj Univ. im. N.G. Chernyshevskogo, Saratov (RU)); Ryazanov, S.V. (Balakovskaya AEhS, Balakovo (RU))

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Monitoring rastitel'nogo i zhivotnogo mira #Em Dash# perspektivnoe napravlenie v ehkologicheskom monitoringe sostoyaniya okruzhayushchej sredy v rajone raspolozheniya Balakovskoj AEhS

p. 463-468

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NUCLEAR POWER PLANTS; ECOLOGY; CONTROLLED AREAS; MONITORING; ECOSYSTEMS; COOLING PONDS; PLANTS; FISHES; SOILS; BIOLOGICAL RADIATION EFFECTS; COMPARATIVE EVALUATIONS

The results of monitoring studies of the location area of the Balakovo NPP (BNPP) covering different levels of organization of living things: cell, organism, population and biocenotic are present. When assessing the genotoxic effects of water from the BNPP cooling pond on seeds of cereals significant cytogenetic changes are not observed. It is shown that the level of fish blood mutations (measured by micronuclei quantity) is changed under the influence of various factors. Testing of soil samples according to the criterion of roots length of oat seedlings doesn't reveal the soil phytotoxicity in the vicinity of the BNPP. Environmental conditions in this area according to population indicator of European white birch development stability is described as a conditionally trouble-free. The negative impact of the BNPP on stability of perches development in the cooling pond isn't determined. Outside air quality assessment by lichen-indication method is shown that change of the relative purity of the atmosphere year-wise on sites studied is not significant and has fluctuation character. Analysis of macrozoobenthos species composition (83 species) allows to determine the BNPP cooling pond waters as #beta#-mesosaprobic ones

Представлены результаты мониторинговых исследований района расположения Балаковской АЭС, которые охватывали разные уровни организации живого: клеточный, организменный, популяционный и биоценотический. При оценке генотоксического влияния воды из водоема-охладителя БАЭС на семена злаков существенных цитогенетических изменений отмечено не было. Показано, что уровень мутаций крови рыб (определяемый по количеству микроядер) изменялся под действием различных факторов. Тестирование проб почв по критерию длины корней проростков овса посевного не выявило фитотоксичности почв в районе расположения БАЭС. Состояние окружающей среды в этом районе по популяционному показателю стабильности развития березы повислой характеризуется как условно благополучное. Негативного воздействия со стороны БАЭС на стабильность развития окуней в водоеме-охладителе не обнаружено. Оценка качества атмосферного воздуха методом лишеноиндикации показала, что изменения показателя относительной чистоты атмосферы по годам на исследованных площадках не являются существенными и носят флуктуационный характер. Анализ видового состава макрозообентоса (83 вида) позволяет отнести воды водоема-охладителя БАЭС к #beta#-мезосапробным

KASKAD as an element of AIRDMS

S61

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RADIATION DETECTION; REACTOR OPERATORS; PERSONNEL DOSIMETRY; DOSEMETERS; RADIATION DOSES; COMPUTER CODES; COMPUTERIZED CONTROL SYSTEMS; EFFICIENCY; CONTROLLED AREAS; NOVovorONEZH-5 REACTOR

Perspective directions of development and modernization of the automated individual radiation dose monitoring system (AIRDMS) are considered and implementation variants are suggested. Automated system of control and storage of authorized dosimeters of KASKAD type is designed for automatical hand-out of personal and direct-reading dosimeters. It provides authorized access to dosimeters or other storage objects and it is intended for operation as a part of AIRDMS. Logical and component structures of AIRDMS are under consideration. A discussion is given to the principles of modern AIRDMS construction: openness, unification, safety, modularity, fault tolerance. Works on development and implementation of checkout and control system for controlled access zone of Novovoronezh NPP unit 5 is completed. Integration of equipment of various manufacturers is carried out, the developed algorithms completely ensure observance of all routine passage procedures in controlled access zone

Рассмотрены перспективные направления развития и модернизации автоматизированной системы индивидуального дозиметрического контроля (АСИДК) и предложены варианты их реализации. Автоматизированная система контроля и хранения авторизованных дозиметров типа КАСКАД предназначена для автоматической выдачи персональных и прямопоказывающих дозиметров. Она обеспечивает санкционированный доступ к дозиметрам или другим объектам хранения и предназначена для работы в составе АСИДК. Рассмотрены логическая и компонентная структуры АСИДК. Обсуждаются принципы построения современной АСИДК: открытости, унификации, безопасности, модульности, отказоустойчивости. Завершены работы по созданию и внедрению системы контроля и управления доступом в зону контролируемого доступа 5 блока Нововоронежской АЭС. Произведена интеграция оборудования различных производителей, разработанные алгоритмы полностью обеспечивают соблюдение всех регламентных процедур прохода в зону контролируемого доступа

Operational evaluation of NPP emissions under conditions of design basis accident

S21

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Operativnaya otsenka vybrosov AEhS v usloviyakh proektnoj avarii

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NUCLEAR POWER PLANTS; DESIGN-BASIS ACCIDENTS; RADIATION ACCIDENTS; FISSION PRODUCTS; CONTAMINATION; EARTH ATMOSPHERE; REACTOR SITES; REACTOR ACCIDENT SIMULATION; SPECTROSCOPY; METEOROLOGY; EVALUATION

Discussion is given to simulation procedure of atmospheric transport and dispersion of fission products in the conditions of the Smolensk NPP site and assessment on its base of composition and mass of fission products release according to spectrometric measurements. To interpret the results of spectrometric measurements it is necessary to know a form and spatial position of radiation source, which are determined by meteorological conditions and paths of fission products emission to the atmosphere. Realization of online procedures of emission assessment can be achieved by compilation of the library of a priori scenarios of fission products atmospheric distribution at design-base accidents with account of the possible meteorological conditions characteristic for NPP

Рассматривается процедура моделирования атмосферных процессов переноса и рассеяния продуктов деления в условиях застройки промплощадки Смоленской АЭС и оценки на ее основе состава и массы выброса продуктов деления по данным спектрометрических измерений. Для интерпретации результатов спектрометрических измерений необходимо знание формы и пространственного положения источника излучения, которые определяются метеорологической обстановкой и путями поступления в атмосферу продуктов деления. Реализация в оперативном режиме процедуры оценки выброса может быть обеспечена за счет компиляции библиотеки априорных сценариев атмосферного распространения продуктов деления при проектных авариях с учетом возможных метеоусловий, характерных для района расположения АЭС

Use of ecological criteria in calculations of maximum permissible emission norms

S54

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Ispol'zovanie ehkologicheskikh kriteriev v raschetakh normativov PDV
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NUCLEAR POWER PLANTS; RADIATION PROTECTION; SAFETY STANDARDS;
RADIOISOTOPES; EARTH ATMOSPHERE; SOILS; ECOSYSTEMS; BIOLOGICAL RADIATION EFFECTS; CONTAMINATION

Quantitative criteria of radiation safety assurance of the natural biota at NPP radionuclides emissions into the atmosphere - control concentration of radionuclides in environmental components (in soil and air) are suggested. The observance of these levels will ensure the absence of negative radiation-ecological effects on terrestrial natural biota objects, biodiversity and natural ecosystems. It is proposed to consider these criteria when developing updated procedures for calculating norms of maximum permissible emissions of NPP radionuclides

Предложены количественные критерии обеспечения радиационной защиты природной биоты при выбросах радионуклидов АЭС в атмосферу - контрольные концентрации радионуклидов в компонентах окружающей среды (почве и воздухе). Соблюдение этих уровней обеспечит отсутствие негативных радиационно-экологических эффектов для объектов наземной природной биоты, биологического разнообразия и природных экосистем. Предлагается учесть данные критерии при разработке актуализированной методики расчета нормативов предельно допустимых выбросов радионуклидов АЭС

Current requirements of International and Russian documents to personnel radiation safety assurance at NPP

S61
Kut'kov, V.A. (NITs #Left-Pointing Double Angle Quotation Mark#Kurchatovskij Inst.#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Tkachenko, V.V.; Saakyan, S.P. (Obninskij Inst. Atomnoj Ehnergetiki NIYaU MIFI, Obninsk (RU))
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Sovremennye trebovaniya mezhdunarodnykh i rossijskikh dokumentov k obespecheniyu radiatsionnoj bezopasnosti personala na AEhS

p. 484-489

(RU)

28 refs., 2 tabs.

Rosehnergoatom (Ehlektröhnergeticheskij Divizion Rosatoma), Moscow (RU)

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RADIATION PROTECTION; RADIATION PROTECTION LAWS; INTERNATIONAL REGULATIONS; SAFETY STANDARDS; RECOMMENDATIONS; RUSSIAN FEDERATION

Fundamentals of radiation safety and international requirements for radiation safety assurance of personnel are under consideration, as well as their development and implementation in the Russian Federation.

Understanding the basics of international standards, principles and criteria of radiation safety assurance allows one to understand better the changes that occur in the system of radiological protection of nuclear industry and energy personnel of the Russian Federation and which are reflected in new rules and regulations, as well as in the regulatory documents of the Federal medical-biological agency

Рассматриваются основы радиационной безопасности и международные требования к обеспечению радиационной безопасности персонала, а также их развитие и внедрение в Российской Федерации. Понимание основ международных стандартов, принципов и критериев обеспечения радиационной безопасности позволяет лучше понять те изменения, которые происходят в системе радиационной защиты профессиональных работников в атомной промышленности и энергетике Российской Федерации и находят отражение в новых Нормах и Правилах, а также в регулирующих документах Федерального медико-биологического агентства

International requirements to strategy of population protection in the case of NPP accident S61

Kut'kov, V.A. (NITs #Left-Pointing Double Angle Quotation Mark#Kurchatovskij Inst.#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Tkachenko, V.V.; Saakyan, S.P. (Obninskij Inst. Atomnoj Ehnergetiki NIYaU MIFI, Obninsk (RU))

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Mezhdunarodnye trebovaniya k strategii zashchity naseleniya v sluchae avarii na AEhS

p. 489-495

(RU)

25 refs., 2 figs., 2 tabs.

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BEYOND-DESIGN-BASIS ACCIDENTS; FUKUSHIMA DAIICHI NUCLEAR POWER STATION; SIMULATION; RADIATION PROTECTION LAWS; IAEA SAFEGUARDS; RUSSIAN FEDERATION; COMPARATIVE EVALUATIONS; HUMAN POPULATIONS

Two population protection strategies in the case of beyond-the-design-accident at NPP are discussed - strategy meeting the requirements of the IAEA and the current strategy in the Russian Federation. #Left-Pointing Double Angle Quotation Mark#Fukushima stress test#Right-Pointing Double Angle Quotation Mark# demonstrated that in the Russian Federation the existing system of emergency preparedness and response was not in accordance with international requirements. The necessity of a full audit of domestic strategy of population protection in case of NPP accident is noted

Рассмотрены две стратегии защиты населения в случае запроектной аварии на АЭС - стратегия, отвечающая требованиям МАГАТЭ, и стратегия, существующая в Российской Федерации. #Left-Pointing Double Angle Quotation Mark#Фукусимский стресс-тест#Right-Pointing Double Angle Quotation Mark# наглядно продемонстрировал, что существующая в Российской Федерации система обеспечения аварийной готовности и реагирования не соответствует международным требованиям. Отмечается необходимость полной ревизии отечественной стратегии защиты населения в случае аварии на АЭС

Realization of PSR-project at Kursk NPP

S61;S21

Bereznitskij, A.A. (Kurskaya AEhS, Kurchatov (RU))

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Realizatsiya PSR-proekta na Kurskoj AEhS

p. 495-499

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8 figs.

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LWGR TYPE REACTORS; RADIATION PROTECTION; RADIATION DOSES; PERSONNEL;
 REACTOR MAINTENANCE; DOSE RATES; COMPARATIVE EVALUATIONS

In 2015 at the Kursk NPP the project for improving radiation situation in the workplaces and for reducing the maximal individual irradiation doses of maintenance personnel (MP) was implemented. As a result of the measures realized at the Kursk NPP improvement of radiation situation in the MP workplaces and reference points was more than 10% on average. Dose rates in the MP workplaces in the repeated forced circulation circuit were reduced up to 4 times. The number of personnel with individual dose above 15 mSv during 2015 was reduced by more than 70%. Average and collective doses of MP at the Kursk NPP were reduced. In 2016 realization of similar project was continued, it involved also reactor shop operating personnel besides MP

В 2015 году на Курской АЭС был реализован проект по улучшению радиационной обстановки на рабочих местах и снижению максимальных индивидуальных доз облучения ремонтного персонала (РП). В результате выполнения мероприятий в среднем по Курской АЭС улучшение радиационной обстановки на рабочих местах РП и в реперных точках составило более 10%. Снижены мощности дозы на рабочих местах РП в помещениях контура многократной принудительной циркуляции до 4 раз. Количество персонала с индивидуальной дозой более 15 мЗв за 2015 год снижено более чем на 70%. Снижена средняя и коллективная дозы РП на Курской АЭС. В 2016 году продолжена реализация аналогичного проекта, охватившего помимо РП также оперативный персонал реакторных цехов

Maintenance of environmentally acceptable condition of nuclear plant water recycling system when applying #Left-Pointing Double Angle Quotation Mark#blowing#Right-Pointing Double Angle Quotation Mark# technology of the Rostov NPP cooling reservoir S54

Gorskaya, O.I. (Filial AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark# #Left-Pointing Double Angle Quotation Mark#Rostovskaya Atomnaya Stantsiya#Right-Pointing Double Angle Quotation Mark#, Volgodonsk (RU))

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Obespechenie ehkologicheskogo priemlemogo sostoyaniya sistemy oborotnogo vodosnabzheniya atomnoj stantsii pri primenenii tekhnologii #Left-Pointing Double Angle Quotation Mark#produvki#Right-Pointing Double Angle Quotation Mark# vodoema-okhladitelya Rostovskoj AEhS

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COOLING PONDS; NUCLEAR POWER PLANTS; CHEMICAL COMPOSITION; TEMPERATURE MONITORING; HYDROLOGY; AQUATIC ECOSYSTEMS; COMPARATIVE EVALUATIONS; ENVIRONMENTAL EFFECTS

The results of Rostov NPP cooling reservoir blowing for six years are considered. Characteristics of the Tsimlyansk reservoir and cooling pond in regards to chemical composition, thermal regime and species diversity are analyzed. Conclusion is made that there is no negative impact of cooling pond waters on chemical composition, thermal regime and structural and functional characteristics of the aquatic communities of the Tsimlyansk reservoir: there is no the excess of pollutant standards in the reservoir; water discharge from cooling pond has no effect on hydrochemical regime of Tsimlyansk reservoir; salt content in cooling pond is reduced for 4% in average (sulfates #En Dash# for 7.7; chlorides #En Dash# for 5.5; copper #En Dash# for 29.2%)

Рассмотрены результаты проведения продувки водоема-охладителя Ростовской АЭС за шесть лет. Проанализированы характерные особенности Цимлянского водохранилища и водоема-охладителя по химическому составу, термическому режиму и видовому разнообразию. Сделан вывод об отсутствии негативного воздействия вод водоема-охладителя на химический состав, термический режим и структурно-функциональные характеристики водных сообществ Цимлянского водохранилища: превышений установленных нормативов загрязняющих веществ в водохранилище не зафиксировано; сброс продувочных вод не оказал отрицательного воздействия на гидрохимический режим Цимлянского водохранилища; солесодержание в водоеме-охладителе снизилось в среднем на 4% (сульфатов - на 7,7; хлоридов - на 5,5; меди - на 29,2%)

Internal radiation dose calculation with account of the dispersion composition of inhaled fraction and regularities of aerosol accumulation in different sections of the respiratory tract according to GOST R ISO 7708-2006

S61

Gorbacheva, N.V.; Kulich, N.V. (Ob''edinennyj Inst. Ehnergeticheskikh i Yadernykh Issledovanij - Sosny NAN Belarusi, Minsk (BY))

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Raschet doz vnutrennego oblucheniya s uchetom dispersnogo sostava vdykhaemoj fraktsii i zakonomernostej akkumulyatsii aehrozolya v razlichnykh otdelakh dykhatel'nogo trakta po GOST R ISO 7708-2006
p. 506-510

(RU)

5 refs., 3 figs., 3 tabs.

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatoma), Moscow (RU)
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**RADIATION DOSES; DOSE COMMITMENTS; INTERNAL IRRADIATION; RESPIRATORY SYSTEM;
RADIOACTIVE AEROSOLS; COMPUTERIZED SIMULATION; INHALATION; PARTICLE SIZE; R
CODES; DISTRIBUTION FUNCTIONS; MODIFICATIONS**

In order to take account of the influence of particle distribution of gas-aerosol release by diameter sizes on an inhalation dose the modification of the model of internal irradiation from inhalation, recommended by the ICRP, is made in the part of the probability of aerosol particles transition from inhaled air in various sections of the respiratory tract. On the basis of the modified dosimetric model the change is performed of RADRISK code that calculates atmospheric diffusion of radioactive contaminant and assessment of population exposure. Using the technique of simulation modelling of dispersion composition of radioactive aerosol absorbed by inhalation, as well as the statistical characteristics of particles precipitated in various sections of the lungs, calculations of inhalation doses to population are done. The developed mathematical apparatus provides a realistic prognosis of inhalation dose on the base of empirical or expert assessments of dispersion composition of emergency emission

С целью учета влияния распределения частиц газоаэрозольного выброса по размерам диаметров на ингаляционную дозу выполнена модификация модели внутреннего облучения от ингаляции, рекомендованной МКРЗ, в части учета вероятности перехода аэрозольных частиц из вдыхаемого воздуха в различные отделы дыхательного тракта. На основе модифицированной дозиметрической модели выполнена модернизация компьютерной программы RADRISK, выполняющей расчет атмосферной диффузии радиоактивной примеси и оценку доз облучения населения. Методом имитационного моделирования дисперсного состава радиоактивного аэрозоля, поглощаемого при вдыхании, а также статистических характеристик частиц, осаждаемых в различных отделах легких, выполнены расчеты ингаляционной дозы облучения населения. Разработанный математический аппарат обеспечивает реалистичный прогноз ингаляционной дозы облучения на основе эмпирических либо экспертных оценок дисперсного состава аварийного выброса

**Dependence of activity limits of the fission products in the WWER-1200 primary coolant
on the design parameters of physical barriers and sanitary-protection zone size**

S61
*Luzanova, L.M.; Miglo, V.N.; Savin, A.V.; Saprykin, D.K.; Timoshinov, N.A. (NITs #Left-Pointing Double
Angle Quotation Mark#Kurchatovskij Inst.#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))*

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Zavisimost' predelov po aktivnosti produktov deleniya v teplonositele pervogo kontura VVEhR-1200 ot
proektnykh parametrov fizicheskikh bar'erov i razmerov sanitarno-zashchitnoj zony

p. 510-514

(RU)

3 refs., 5 tabs.

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NUCLEAR POWER PLANTS; WWER TYPE REACTORS; FISSION PRODUCTS; COOLANTS;
 PRIMARY COOLANT CIRCUITS; MAXIMUM PERMISSIBLE ACTIVITY; LEAKS; RADIOACTIVE
 AEROSOLS; RADIATION DOSES; REACTOR OPERATION; CONTROLLED AREAS; RADIATION
 PROTECTION

When establishing in the NPP design the activity limits of fission products (FP) in the primary coolant of operating reactor it is necessary to take into account as a whole the state of physical barriers (of fuel matrix, fuel cans, boundaries of primary circuit and containment) and their ability to contain radioactive FP, parameters of ventilation fans, the effectiveness of the systems for radioactive media isolation stipulated in the project, as well as dimensions of control area. It is shown that the ALARA principle for WWER NPP can be observed when the values of operational parameters of FP activity in the primary coolant are set on the base of the value of the dose on the boundary of control area equal 10 #Micro Sign#Sv/year, assuming its formation by gas-aerosol emissions from one unit

При установлении в проекте АЭС предельных уровней активности продуктов деления (ПД) в теплоносителе первого контура работающего реактора необходимо учитывать в комплексе состояние физических барьеров (топливной матрицы, оболочек ТВЭЛОВ, границы первого контура и защитной оболочки) и их способность удерживать радиоактивные ПД, параметры вентиляционных систем, эффективность систем локализации радиоактивных сред, предусмотренных в проекте, а также размеры санитарно-защитной зоны. Показано, что принцип ALARA на АЭС с ВВЭР может быть соблюден при установлении величины эксплуатационных параметров по активности ПД в теплоносителе первого контура, исходя из величины дозы облучения на границе санитарно-защитной зоны 10 мкЗв/год при условии ее формирования газоаэрозольными выбросами с одного энергоблока

Continuous automated tritium and carbon monitoring in air and water

S46

Kryuchkova, L.M. (OOO NPP #Left-Pointing Double Angle Quotation Mark#RADIKO#Right-Pointing Double Angle Quotation Mark#, Obninsk (RU))

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Nepreryvnyj avtomatizirovannyj kontrol' tritiya i ugleroda v vozdukh'e i vode

p. 515-518

(RU)

6 figs.

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NUCLEAR POWER PLANTS; TRITIUM METERS; TRITIUM; SENSITIVITY; RADIATION MONITORING; ON-LINE MEASUREMENT SYSTEMS; SAFETY STANDARDS; AIR

The problem of continuous automated control of tritium in emissions and in the indoor air of a nuclear power plant is discussed. The consideration is given to some specific models of equipment for this purpose satisfying different functional requirements (automatic control, portable equipment, stationary monitors to ultra-low levels and lighter ones with a higher values of the minimum detectable activity, etc.) produced by Overhoff Tecnology, US and Premium Analyse, France, which use special tritium sampling techniques. Using the mentioned equipment or similar devices it is possible to enforce required normative documents, both during normal operation and in an emergency at a nuclear power plant

Обсуждается проблема непрерывного автоматизированного контроля трития в выбросах и в воздухе помещений АЭС. Рассмотрены несколько характерных моделей оборудования для этой цели, отвечающих разным функциональным требованиям (автоматический контроль, переносное оборудование, мониторы стационарные для ультранизких уровней и более легкие, имеющие более высокие значения минимально детектируемой активности и т.п.) производства Overhoff Tecnology, США и Premium Analyse, Франция, которые применяют специальные методы пробоотбора трития. Используя рассмотренное оборудование либо аналогичное, можно обеспечить соблюдение требуемых нормативных документов, как в режиме нормальной эксплуатации, так и при аварийных ситуациях на АЭС

Wide-range devices for remote measurements and recording of ionizing radiations

S46

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Shirokodiapazonnye pribory dlya distantsionnykh izmerenij i registratsii ioniziruyushchikh izluchenij
p. 518-520

(RU)

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Rosehnergoatom (Ehлектроehnergeticheskij Divizion Rosatoma), Moscow (RU)

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GAMMA RADIATION; DOSE RATES; GAMMA CAMERAS; PLASTIC SCINTILLATION DETECTORS; SENSITIVITY; RADIATION DOSE RATE RANGES; RECORDING SYSTEMS; AUTOMATION

The discussion is given to the problem of creation of specific enough sensitive wide-range measuring equipment without switching subranges, which prevents the loss of information in conditions of abruptly changing contamination levels. The experimental model of the modern dose-rate meter of gamma radiation for dosimetric airborne gamma survey is considered. The uniqueness of the meter is a continuous measurement of dose rate of gamma-radiation and recording of parameters and measurements without switching in wide range from the levels near background values, to the ones exceeding the threshold of sensitivity by 10^7 times. Automatic processing of measurement results with the use of electronic maps and data from the navigational equipment is projected

Обсуждается проблема создания специфичной без переключений поддиапазонов достаточно чувствительной широкодиапазонной измерительной аппаратуры, не допускающей потерь информации в условиях резко меняющихся уровней радиоактивного загрязнения. Рассмотрен макет современного измерителя мощности дозы гамма-излучения для дозиметрической аэрогамма-съемки. Уникальность измерителя в непрерывном измерении мощности дозы гамма-излучения и регистрации параметров и результатов измерений без переключений в широком диапазоне от уровней, близких к фоновым, до значений, превышающих порог чувствительности в 10^7 раз. Предполагается автоматическая обработка результатов измерений с использованием электронных карт местности и данных от навигационного оборудования

Investigation of ^{60}Co content dynamics in surface soil on the site of the Rostov nuclear power plant

S54

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Issledovanie dinamiki sodержaniya ^{60}Co v poverkhnostnom sloe pochvy territorii razmeshcheniya Rostovskoj atomnoj stantsii

p. 520-524

(RU)

2 refs., 5 figs., 1 tab.

Rosehnergoatom (Ehlektrohnergeticheskij Divizion Rosatoma), Moscow (RU)
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NUCLEAR POWER PLANTS; SURFACE CONTAMINATION; COBALT 60; RADIOACTIVITY; SOILS; AIR; FOOD; RISK ASSESSMENT; RADIATION PROTECTION; RADIOECOLOGICAL CONCENTRATION; POPULATIONS; CONTROLLED AREAS; COMPARATIVE EVALUATIONS

The dynamics of ^{60}Co content in the surface soil in the vicinity of the Rostov NPP (from 2002 to 2014) is studied to assess the relevance of this factor for radiation safety of population. The dynamics of ^{60}Co content in the Rostov NPP emissions and in the surface soil is analyzed. The relationship of ^{60}Co content in the surface soil and its emissions of the Rostov NPP, as well as the dynamics of the total β -activity in foodstuffs of local production are investigated. The influence of man-made radionuclides content in the surface soil on its total β -activity is evaluated. It is shown that ^{60}Co from the emissions of the Rostov NPP does not accumulate in the surface soil surveillance area and, therefore, does not effect on radiation safety of both objects of environment and population living in the vicinity of the NPP

Исследована динамика содержания ^{60}Co в поверхностном слое почвы территории размещения Ростовской АЭС (с 2002 по 2014 гг.) для оценки значимости этого фактора для радиационной безопасности населения. Проанализирована динамика содержания ^{60}Co в выбросах Ростовской АЭС и в поверхностном слое почвы. Исследована взаимосвязь содержания ^{60}Co в поверхностном слое почвы и его выбросов Ростовской АЭС, а также динамика суммарной β -активности в продуктах питания местного производства. Оценено влияние содержания техногенных радионуклидов в поверхностном слое почвы на ее суммарную β -активность. Показано, что ^{60}Co , поступающий с выбросами Ростовской АЭС в атмосферу, не накапливается в поверхностном слое почвы зоны наблюдения и, следовательно, не влияет на радиационную безопасность, как объектов природной среды, так и населения, проживающего на территории размещения атомной станции

Projects of power units for SNPP on the base of boiling tank reactor of KARAT type S21

Lukasevich, I.B.; Molokanov, N.A.; Nazarov, V.S.; Nikel', K.A.; Prokopovich, A.A.; Romanova, N.V.; Tret'yakov, I.T. (AO #Left-Pointing Double Angle Quotation Mark#NIKIEhT#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Proekty ehnergoblokov dlya ASMM na baze korpusnogo kipyashchego reaktora tipa KARAT

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THERMAL POWER PLANTS; PWR TYPE REACTORS; NUCLEAR FACILITIES; REACTOR DESIGN; REACTOR OPERATION

The range of generating units for nuclear heat and power plants on the base of boiling tank nuclear reactor of stand-alone heat and power supply (KARAT) is considered. The engineering-physical look of the plants with KARAT-100 and KARAT-45 reactors is formed. Constructions of the reactor facilities and reactors including the internals and the steam separation chart are designed. The principle schemes of facilities are determined, manufacturer of turbines is chosen, the concept of reactor safety is developed. The estimation of the expected performance indicators is carried out

Рассмотрена линейка энергоблоков для атомных теплоэлектроцентралей на базе корпусного кипящего атомного реактора автономного теплоэлектроснабжения (КАРАТ). Сформирован инженерно-физический облик установок с реакторами КАРАТ-100 и КАРАТ-45. Разработаны конструкции реакторных установок и реакторов, включая внутрикорпусные устройства и схему сепарации пара. Определены принципиальные схемы установок, выбран производитель турбоустановок, разработана концепция обеспечения безопасности реакторных установок. Проведена оценка ожидаемых технико-экономических показателей

Autonomous thermosyphon passive afterheat removal system of the primary circuit of reactor unit with WWER

S22

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Avtonomnaya termosifonnaya SPOT pervogo kontura reaktornoj ustanovki s VVEhR

p. 527-533

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6 refs., 8 figs.

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WWER TYPE REACTORS; NUCLEAR POWER PLANTS; REACTOR SAFETY; RHR SYSTEMS; AFTER-HEAT REMOVAL; THERMOSYPHONS; HEAT EXCHANGERS; PRIMARY COOLANT CIRCUITS; BEYOND-DESIGN-BASIS ACCIDENTS; STATION BLACKOUT; EFFICIENCY

Schemes, operating principle and features of functioning of autonomous thermosyphon passive heat decay removal system (PHRS) of reactor facility of NPP with WWER are present, its design parameters are given, the basic advantages are discussed. The obtained calculated characteristics of emergency heat removal using the considered autonomous PHRS, particularly with the use of thermosyphon heat-exchange equipment, sufficiently meet the requirements to protective safety systems, providing efficient and reliable after-heat removal of reactor facility. The implementation of PHRS from the primary coolant and passive cooling system of pressure compensator in the composition of the safety systems of evolutionary reactor facilities with WWER plants will increase their safety under conditions of possible beyond-design-basis accidents with full blackout

Представлены схемы, принцип действия и особенности функционирования автономной термосифонной системы пассивного отвода остаточного тепловыделения (СПОТ) реакторной установки АЭС с ВВЭР, приведены ее расчетные характеристики, рассмотрены основные преимущества. Полученные расчетные характеристики режимов аварийного теплоотвода с использованием рассмотренной автономной СПОТ, особенно с учетом использования термосифонного теплообменного оборудования, в достаточной мере удовлетворяют требованиям, предъявляемым к защитным системам безопасности, обеспечивая эффективный и надежный отвод остаточного тепловыделения реакторной установки. Внедрение СПОТ от теплоносителя первого контура и системы пассивного расхолаживания компенсатора давления в состав систем безопасности эволюционных реакторных установок с ВВЭР повысит их безопасность в условиях возможных запроектных аварий с полным длительным обесточиванием

Calculational investigations in support of LBFR-100 reactor fuel cycle safety when using reprocessed uranium

S11

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Raschetnye issledovaniya v obosnovanie zashchishchennosti toplivnogo tsikla reaktora SVBR-100 pri ispol'zovanii regenerirovannogo urana

p. 533-537

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LIQUID METAL COOLED REACTORS; FAST REACTORS; LEAD; BISMUTH; FUEL CYCLE;
URANIUM 236; REPROCESSING; FISSILE MATERIALS; PROLIFERATION; S CODES;
VALIDATION; BENCHMARKS

For LBFR-100 reactor fuel cycle the ability to use reprocessed uranium with increased content of ^{236}U isotope as nuclear fuel is shown. For neutronic calculations and determination of LBFR-100 reactor spent fuel nuclide composition validation of Serpent 1.1.7 software is carried out by benchmark on LBFR-100 reactor nuclear fuel burn-up. It is shown that involving reprocessed uranium with increased content of even isotopes in fast reactor fuel cycle affects weakly on breeding properties of such fuel and leads to necessity of low compensation for their primary presence. The increased ^{236}U isotope content allows to reduce plutonium credit quantitatively and to increase inherent safeguards through increase of even isotopes in plutonium vector. Formation of LBFR-100 reactor fuel cycle on the base of RBMK-1000 reactor reprocessed uranium allows significantly reduce the attractiveness of fissile material of such fuel cycle from the point of view of their unauthorized proliferation

Для топливного цикла реактора СВБР-100 показана возможность использования регенерированного урана с повышенным содержанием изотопа ^{236}U в качестве ядерного топлива. Для нейтронно-физических расчетов и определения нуклидного состава отработавшего топлива реактора СВБР-100 проведена валидация программного комплекса Serpent 1.1.7 на бенчмарке по выгоранию ядерного топлива СВБР-100. Показано, что вовлечение в топливный цикл быстрого реактора регенерированного урана с повышенным содержанием четных изотопов слабо влияет на размножающие свойства такого топлива и приводит к необходимости незначительной компенсации их начального присутствия. Повышенное содержание изотопа ^{236}U позволяет количественно снизить наработку плутония и повысить внутренние барьеры защищенности через увеличение четных изотопов в плутониевом векторе. Формирование топливного цикла реактора СВБР-100 на основе регенерированного урана реактора РБМК-1000 позволит значительно снизить привлекательность делящихся материалов такого топливного цикла с точки зрения их несанкционированного распространения

Development of advanced technologies of the 4th generation in the frame of #Left-Pointing Double Angle Quotation Mark#Generation-IV#Right-Pointing Double Angle Quotation Mark# International Forum

S21
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Razvitie perspektivnykh reaktornykh tekhnologij 4-go pokoleniya v ramkakh mezhdunarodnogo foruma #Left-Pointing Double Angle Quotation Mark#Pokolenie-IV#Right-Pointing Double Angle Quotation Mark#

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INTERNATIONAL COOPERATION; FAST REACTORS; LIQUID METAL COOLED REACTORS; GAS COOLED REACTORS; MOLTEN SALT REACTORS; REACTOR DESIGN

The consideration is given to the problems and goals of the #Left-Pointing Double Angle Quotation
 Mark#Generation IV#Right-Pointing Double Angle Quotation Mark# International Forum, its structure, road
 map, basic characteristics, which is required to provide in the design of G-IV reactors. The main directions
 of works on reactor technologies of fast sodium reactor, fast lead reactor, fast gas reactor, supercritical water
 cooled reactor, molten salt reactor, supercritical water reactor are discussed

Рассмотрены задачи и цели Международного форума #Left-Pointing Double Angle Quotation
 Mark#Поколение-IV#Right-Pointing Double Angle Quotation Mark#, его структура, дорожная карта,
 основные характеристики, которые требуется обеспечить в проектах реакторов 4-го поколения.
 Обсуждаются главные направления работ по реакторным технологиям быстрого натриевого реактора,
 быстрого свинцового реактора, быстрого газового реактора, сверхкритического водяного реактора,
 жидкосолевого реактора, сверхвысокотемпературного газового реактора

Perspectives of supercritical water reactors development

S21

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 Angle Quotation Mark#

Perspektivy sozdaniya reaktorov s vodoj sverkhkriticheskikh parametrov

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FAST REACTORS; WATER COOLED REACTORS; SUPERCRITICAL STATE; REACTOR DESIGN; PROPOSALS; COMPARATIVE EVALUATIONS

Engineering Proposals are formulated on the design of NPP with three variants of supercritical water-cooled reactors (SCWR). WWER-SCP-1700 reactor is single-circuit reactor facility (RF) with single- and double-start reactor core with resonance fast neutron spectrum and loop-type design (input - feedwater; output - superheated steam). V-670 SKDI reactor is two-circuit RF with coolant natural circulation, with resonance thermal neutron spectrum in integral concept (input - in-vessel water; output - slightly superheated steam). PSKD-600 is two-circuit RF with fast neutron spectrum and loop-type design (input - slightly superheated steam; output - superheated steam). Each of the RF mentioned above has a complex of positive qualities, which must have G-4 reactors SCWR. Taking into account the possibility of performance of fuel supply problem (breeding ratio must be not less than 1-1,05) and assurance of acceptable efficiency (over 40%) the last variant of RF is taken for more detailed elaboration

Сформулированы Технические Предложения по проекту АЭС с ВВЭР со сверхкритическими параметрами теплоносителя (ВВЭР-СКД) по трем вариантам реакторов с легководным СКД-теплоносителем. ВВЭР-СКД-1700 - одноконтурная реакторная установка (РУ) с одно- и двухзаходной активной зоной с быстро-резонансным спектром нейтронов и петлевой компоновкой (вход - питательная вода; выход - перегретый пар). В-670 СКДИ - двухконтурная РУ с естественной циркуляцией теплоносителя, с резонансно-тепловым спектром нейтронов в интегральной компоновке (вход - внутрикорпусная вода; выход - слабо перегретый пар). ПСКД-600 - двухконтурная РУ с быстрым спектром нейтронов и петлевой компоновкой (вход - слабо перегретый пар; выход - перегретый пар). Каждая из указанных РУ обладает комплексом положительных качеств, которыми должны обладать реакторы SCWR Поколения 4. С учетом возможности выполнения задачи топливообеспечения (коэффициент воспроизводства должен быть не менее 1-1,05) и обеспечения приемлемого КПД (свыше 40%) за базовый вариант для более детальной проработки принят последний вариант РУ

Key results of research and development in justification of power unit project with RU BN-1200

S21

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Osnovnye rezul'taty NIOKR v obosnovanie proekta ehnergobloka s RU BN-1200

p. 549-555

(RU)

7 refs., 4 figs., 2 tabs.

Rosehnergoatom (Ehlektrohnergeticheskij Divizion Rosatoma), Moscow (RU)

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2016
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**LMFBR TYPE REACTORS; RESEARCH PROGRAMS; FUEL CYCLE; REACTOR SAFETY;
REACTOR ACCIDENTS; PERFORMANCE; COMPARATIVE EVALUATIONS**

Advanced power unit with RU BN-1200 is developed as the basis for industrial implementation of nuclear industry with fast reactors and closed fuel cycle. Research and development performed in justification of new technical solutions make it possible to create a reliable commercial unit with RU BN-1200 in the near future. According to performance indicators competitive ability of unit with BN-1200 reactor with ones with WWER of similar capacity is achieved. The requirement of population evacuation and resettlement prevention at design-basis and beyond-design-basis accidents is provided, as well as the requirement on the total probability of accidents with severe core damage. Performed research and development and design engineering details allow to begin elaboration of design documentation of unit with RU BN-1200

Перспективный энергоблок с РУ БН-1200 разрабатывается как основа для промышленной реализации ядерной энергетики с реакторами на быстрых нейтронах и замкнутым топливным циклом. Выполненные НИОКР в обоснование новых технических решений позволяют рассчитывать на создание надежного коммерческого энергоблока с РУ БН-1200 уже в ближайшее время. По технико-экономическим показателям достигнута конкурентоспособность энергоблока с реактором БН-1200 с энергоблоками ВВЭР аналогичной мощности. Обеспечивается требование по исключению эвакуации и отселения населения при проектных и запроектных авариях, а также требование по суммарной вероятности аварий с тяжелым повреждением активной зоны. Выполненные НИОКР и проектные проработки позволяют перейти к разработке проектной документации энергоблока с РУ БН-1200

**Special characteristics of neutronics of integral low-power WWER reactor
S21**

Ponomarenko, G.L.; Veselov, D.O.; Ermakov, D.N. (AO OKB #Left-Pointing Double Angle Quotation Mark#GIDROPRESS#Right-Pointing Double Angle Quotation Mark#, Podol'sk (RU))

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Osobennosti NFKh integral'nogo reaktora VVEhR maloj moshchnosti

p. 555-562

(RU)

1 ref., 13 figs., 1 tab.

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**WWER TYPE REACTORS; REACTOR CORES; NEUTRONS; FUEL ELEMENTS; GADOLINIUM
OXIDES; RADIATION PROTECTION; BURNUP; REACTOR OPERATION; COMPARATIVE**

EVALUATIONS

The neutronics of WWER type integral reactor of small-power 600 MW (therm.) are analyzed. Comparison of boron-free control variant with one of usual boron control during fuel burnup in base operation mode is carried out. In the first case, the simplified boron system is used only for provision of subcriticality with the failure of the mechanical system of reactor core, as well as in cold depoisoned reactor state at preventative maintenance and refueling. The advantages in safety and economy for boron-free control in comparison with boron control is revealed. Also the analysis is given to daily power maneuvering mode for boron-free control with the use of different ways of additional temperature control. The conclusion is made on relatively simple feasibility of integral small-power reactor according to WWER technology in terms of neutronics

Анализируются нейтронно-физические характеристики активной зоны интегрального реактора типа ВВЭР малой мощности 600 МВт (тепл.). Проведено сравнение варианта безборного регулирования с вариантом обычного борного регулирования в процессе выгорания топлива в базовом режиме эксплуатации. В первом варианте используется упрощенная борная система только для обеспечения подкритичности с отказом механической системы активной зоны, а также в холодном разотравленном состоянии реактора при планово-предупредительных ремонтах и перегрузках топлива. Выявлены преимущества в безопасности и экономике для варианта безборного регулирования в сравнении с борным регулированием. Анализируется также режим суточного маневрирования мощностью для варианта безборного регулирования с использованием различных способов дополнительного температурного регулирования. Сделан вывод об относительно несложной осуществимости интегрального реактора малой мощности по технологии ВВЭР в аспекте нейтронно-физических характеристик

Spent fuel handling in closed fuel cycle of NPP two-component system with WWER and FR

S11

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Obrashchenie s OYaT v zamknutom toplivnom tsikle dvukhkomponentnoj sistemy AEhS s VVEhR i BN p. 562-566

(RU)

7 figs.

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SPENT FUELS; FUEL CYCLE; REPROCESSING; RADIOACTIVE WASTE STORAGE; WET STORAGE; DRY STORAGE; MIXED OXIDE FUELS; WWER TYPE REACTORS; LMFBR TYPE REACTORS; RADIOACTIVE WASTE FACILITIES; RADIOACTIVE WASTE PROCESSING; RADIOECOLOGY

For spent fuel management in forming two-component nuclear energy system with thermal and fast reactors (with account of the BN-1200 reactor series development in the medium term) the creation of centralized integrated complex for spent fuel management seems the most rational solution. This complex includes storage, reprocessing and production of fuel from regenerated materials both for thermal and for fast energetics in the absence of radioactive waste discharges and with their minimal amounts for disposal. Such complex meets all the modern concepts of the non-proliferation, economy and ecology

Для обращения с отработавшим ядерным топливом в создаваемой двухкомпонентной ядерной энергетической системе с тепловыми и быстрыми реакторами (с учетом создания в среднесрочной перспективе серии реакторов БН-1200) наиболее рациональным решением представляется создание централизованного интегрированного комплекса по обращению с отработавшим ядерным топливом. Этот комплекс включает хранение, переработку и изготовление топлива из регенерированных материалов как для тепловой, так и для быстрой энергетики, при отсутствии сбросов радиоактивных отходов и с их минимальными объемами для захоронения. Такой комплекс отвечает всем современным представлениям о нераспространении, экономичности и экологичности

Optimization of local heat treatment operation of ring finishing weld of steam generator S22

Starshinov, V.I.; Esipko, S.P.; Denisenko, P.P.; Kirillov, V.V. (Filial AO #Left-Pointing Double Angle Quotation Mark#AEhM-Tekhnologii#Right-Pointing Double Angle Quotation Mark# #Left-Pointing Double Angle Quotation Mark#Atommash#Right-Pointing Double Angle Quotation Mark# v g. Volgodonsk, Volgodonsk (RU))

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Optimizatsiya operatsii mestnoj termoobrabotki zamykayushchego kol'tsevogo shva parogeneratora p. 567-568

(RU)

6 figs.

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800 p.

STEAM GENERATORS; WELDED JOINTS; HEATERS; HEAT TREATMENTS; EFFICIENCY

The technology of local heat treatment of ring finishing weld of steam generators using flexible ceramic heating mats is described. Flexible heater consists of a multiple element from nichrome wire that is isolated

by beaded and interconnected beads from ceramics on the base of aluminium oxide ensuring high thermal conductivity and reliable electrical safety. The advantages and disadvantages of these heaters are under consideration

Рассмотрена технология местной термообработки замыкающих кольцевых сварных швов парогенераторов с использованием гибких керамических нагревательных ковриков. Гибкий нагреватель состоит из многожильного элемента из нихромовой проволоки, которая изолирована нанизанными и соединенными между собой бусинами из керамики на основе оксида алюминия, обеспечивающими высокую теплопроводность и надежную электробезопасность. Обсуждаются преимущества и недостатки этих нагревателей

Some topical problems of nuclear energetics development on the base of water-cooled reactors

S22

Blagoveshchenskij, A.Ya.; Bor, S.M.; Mityukov, V.N. (Sankt-Peterburgskij Gosudarstvennyj Politehnicheskij Univ., Sankt-Peterburg (RU))

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Nekotorye aktual'nye zadachi razvitiya atomnoj ehnergetiki na baze ispol'zovaniya reaktorov s vodyanym teplonositelem

p. 569-571

(RU)

2 refs.

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PRESSURE TUBE REACTORS; TANK TYPE REACTORS; WATER COOLED REACTORS; SUPERCRITICAL STATE; COMPARATIVE EVALUATIONS; REACTOR SAFETY

Pressure tube reactors, double-circuit reactor facilities with WWER, tank type boiling reactors, supercritical water reactors are reviewed. It is shown that the prospect of development of the nuclear energetics with water reactors should rely on both a decision of current actual engineering challenges and the necessary deep scientific researches of principally new directions all over complex of works in the light of nuclear safety

Рассмотрены каналные реакторы, двухконтурные реакторные установки с ВВЭР, корпусные кипящие реакторы, реакторы, охлаждаемые водой сверхкритического давления. Показано, что перспектива развития ядерной энергетики с реакторами с водяным теплоносителем должна опираться как на решение насущных инженерных задач сегодняшнего дня, так и на необходимые глубокие

научные исследования принципиально новых направлений по всему комплексу работ в свете обеспечения ядерной безопасности

Experimental study of simultaneous operation of passive safety systems of the Novovoronezh NPP-2 at large-scale #Left-Pointing Double Angle Quotation Mark#RU-ZO#Right-Pointing Double Angle Quotation Mark# test-facility S22;S42

Mal'tsev, M.B.; Taranov, G.S.; Zheltoukhov, A.V. (AO #Left-Pointing Double Angle Quotation Mark#Atomenergoproekt#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Morozov, A.V.; Kalyakin, D.S.; Shlepin, A.S.; Sakhipgareev, A.R.; Ragulin, S.V. (AO #Left-Pointing Double Angle Quotation Mark#GNTs RF-FEhI#Right-Pointing Double Angle Quotation Mark#, Obninsk (RU))

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Ehksperimental'noe issledovanie sovместnoj raboty passivnykh sistem bezopasnosti Novovoronezhskoj AEhS-2 na krupnomasshtabnom stende #Left-Pointing Double Angle Quotation Mark#RU-ZO#Right-Pointing Double Angle Quotation Mark#

p. 571-577

(RU)

2 refs., 12 figs.

Rosehnergoatom (Ehлектроehnergeticheskij Divizion Rosatoma), Moscow (RU)
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NOVOVORONEZH-2 REACTOR; REACTOR OPERATION; REACTOR ACCIDENT SIMULATION; REACTOR SAFETY; CONTAINMENT; REACTOR PROTECTION SYSTEMS; LEAKS; RHR SYSTEMS; THERMAL HYDRAULICS; LOSS OF COOLANT; BENCHMARKS

At the #Left-Pointing Double Angle Quotation Mark#RU-ZO#Right-Pointing Double Angle Quotation Mark# test-facility two experiments are conducted in which the accidents with guillotine rupture of the main circulation pipeline on reactor input (cold leg) and output (hot leg) are simulated. The results obtained are sufficient to justify the efficiency of simultaneous operation of containment, secondary hydraulic accumulator and passive heat removal system in conditions of beyond-design-basis accident with the loss of coolant (accompanied by refusal of active safety systems) relating to the Novovoronezh NPP-2. Furthermore, experimental data are used for additional verification of calculational codes simulating interlocked thermohydraulic processes in reactor facility and a containment dome at beyond-design-basis accidents with of reactor facility leakages

На стенде #Left-Pointing Double Angle Quotation Mark#PY-3O#Right-Pointing Double Angle Quotation Mark# проведено два эксперимента, в которых моделировались аварии с гильотинным разрывом главного циркуляционного трубопровода на входе (холодная нитка) и выходе (горячая нитка) из

реактора. Полученные результаты являются достаточными для обоснования эффективности совместной работы защитной оболочки, гидроемкостей второй ступени и системы пассивного отвода тепла в условиях запроектной аварии с потерей теплоносителя (сопровождающихся отказом активных систем безопасности) применительно к Нововоронежской АЭС-2. Кроме того, экспериментальные данные использованы для дополнительной верификации расчетных программ, моделирующих взаимно связанные теплогидравлические процессы в реакторной установке и защитной оболочке при запроектных авариях с течами из реакторной установки

Information model as the basis for the effective NPP life cycle management

S22

Dorobin, D.S. (AO #Left-Pointing Double Angle Quotation Mark#NEOLANT#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Informatsionnaya model' kak osnova ehffektivnogo upravleniya zhiznennym tsiklom AEhS

p. 577-579

(RU)

2 figs.

Rosehnergoatom (Ehлектроehnergeticheskij Divizion Rosatoma), Moscow (RU)

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NUCLEAR POWER PLANTS; REACTOR LIFE CYCLE; DATA ACQUISITION; DATA PROCESSING; INFORMATION SYSTEMS; COMPUTERIZED CONTROL SYSTEMS

Methodology is developed and the technology of NPP life cycle management is already partly implemented, which includes both a system of methodical documents and a set of software systems for data storage, submission and exchange. The developed methodology provides not just a single approach to design, construction, operation and decommissioning of NPP power units, but also enables you to simplify and standardize routine on maintenance of NPP. The basis of NPP life cycle management methodology is the use of data-focused (as opposed to document-focused) information engineering data management systems. The centerpiece of such system is an information model which provides a comprehensive and up-to-date data on the object and allows to solve applied problems

Разработана методология и уже частично реализована технология управления жизненным циклом АЭС, включающая в себя как систему методических документов, так и набор программных комплексов для хранения, предоставления и обмена данными. Разработанная методология обеспечивает не просто единые подходы к проектированию, сооружению, эксплуатации и выводу из эксплуатации энергоблоков АЭС, но и позволяет упростить и стандартизировать регламентные работы по сопровождению АЭС. Основой реализуемой методологии управления жизненным циклом

АЭС является использование датацентрических (в противовес документоцентрическим) информационных систем управления инженерными данными. Центральной частью такой системы является информационная модель, которая обеспечивает исчерпывающие и актуальные данные об объекте и позволяет решать различные прикладные задачи

Manufacture, mounting and operation of polar cranes

S42

Pimshin, Yu.I.; Naugol'nov, V.N.; Zayarov, Yu.V.; Pimshin, I.Yu. (Volgodonskij Inzhenerno-Tekhnicheskij Inst. #En Dash# Filial Natsional'nogo Issledovatel'skogo Yadernogo Univ. (MIFI), Volgodonsk (RU))

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Izgotovlenie, montazh i ehkspluatatsiya kranov krugovogo dejstviya

p. 579-584

(RU)

13 refs., 6 figs., 6 tabs.

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatom), Moscow (RU)

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800 p.

NUCLEAR POWER PLANTS; CRANES; INSTALLATION; RECOMMENDATIONS

Polar crane is one of the main technological maintenance equipment of reactor compartment. The control technology of geometric characteristics of the polar crane at its check assembly is present. The recommendations on its installing on the crane track are given. Some recommendations on monitoring at the initial stage of the polar crane operation are described

Кран кругового действия - одно из основных технологических устройств обслуживания реакторного отделения. Представлена технология контроля геометрических характеристик крана кругового действия при его контрольной сборке. Приведены рекомендации при его монтаже на рельсовом пути, даны рекомендации при монтаже рельсового пути. Описаны некоторые рекомендации по мониторинговым работам на начальном этапе эксплуатации полярного крана

NPP construction monitoring in #Left-Pointing Double Angle Quotation

Mark#Rosenergoatom Concern#Right-Pointing Double Angle Quotation Mark#

S42;S97

Reberger, A.M. (AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Mets, A.A. (AO #Left-Pointing Double Angle Quotation Mark#KONSIST-OS#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Monitoring sooruzheniya AEhS v AO #Left-Pointing Double Angle Quotation Mark#Kontsern

Rosehnergoatom#Right-Pointing Double Angle Quotation Mark#

p. 584-587

(RU)

4 figs.

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatoma), Moscow (RU)

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NUCLEAR POWER PLANTS; CONSTRUCTION; DESIGN; PLANNING; REACTOR LIFE CYCLE; INFORMATION SYSTEMS; TECHNOLOGY TRANSFER; INFORMATION DISSEMINATION; MODIFICATIONS; COST; COMPUTER ARCHITECTURE; CONTROL

During the construction of the new NPP power units in Russia JSC #Left-Pointing Double Angle Quotation Mark#Rosenergoatom#Right-Pointing Double Angle Quotation Mark# carries out the customer functions during design and construction, manages start-up works and then takes power unit in operation. Currently the complex of information systems is designed, these systems enable to perform the main tasks of planning and provide control of execution of works on design, construction and equipment supply. Applied technological solutions in future will allow using realized tools not only at NPPs construction projects realization, but also in projects of reconstruction and modernization of NPPs. The long-term objective of capital construction processes automation is to ensure information exchange with engineering companies by maximal covering the entire bulk of the documents/data, that will have a positive effect on the duration of NPP construction, and to ensure the transfer of all accumulated object data pool on subsequent stages of the NPP life cycle

При сооружении новых энергоблоков АЭС в России АО #Left-Pointing Double Angle Quotation Mark#Концерн Росэнергоатом#Right-Pointing Double Angle Quotation Mark# осуществляет функции Заказчика в ходе проектирования и строительства, управляет пуско-наладочными работами и далее принимает энергоблок в эксплуатацию. В настоящее время создан комплекс информационных систем, которые позволяют выполнять основные задачи планирования и обеспечивают контроль исполнения работ по проектированию, сооружению и поставке оборудования. Примененные технологические решения в дальнейшем позволят использовать реализованные инструменты не только при реализации проектов сооружения АЭС, но и в проектах реконструкции и модернизации АЭС. Перспективная цель автоматизации процессов капитального строительства - обеспечить информационный обмен с инжиниринговыми компаниями, максимально охватив весь объем документов/данных, что позитивно скажется на сроках сооружения АЭС, и обеспечить передачу всего накопленного пула данных по объекту на последующие этапы жизненного цикла АЭС

Problems of strength and of WWER in-vessel internals life during long-lasting operation**S21**

Davidenko, N.N.; Vasil'ev, V.G. (Filial AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark# po Realizatsii Kapital'nykh Proektov, Moscow (RU))

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Voprosy prochnosti i resursa VKU VVEhR pri dlitel'noj ehkspluatatsii

p. 587-590

(RU)

2 refs., 5 figs.

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatoma), Moscow (RU)

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2016

800 p.

WWER TYPE REACTORS; REACTOR COMPONENTS; REACTOR SAFETY; RADIATION HARDNESS; MECHANICAL PROPERTIES; SERVICE LIFE; STAINLESS STEELS

Some of the most important elements of the WWER-1000 type reactors determining the NPP safety are internals. A system of justification and assurance of long-term safe operation of WWER-1000 internals is built up. Development and application of new radiation-resistant steel for new WWER internals will provide a guaranteed designed life of 60 years and more of core baffles elements of new power units, as well as will increase the competitiveness of domestic NPP with WWER on the world market

Одними из наиболее ответственных элементов реакторов типа ВВЭР-1000, определяющих безопасность АЭС, являются внутрикорпусные устройства (ВКУ). Создана система обоснования и обеспечения длительной безопасной эксплуатации ВКУ реакторов типа ВВЭР-1000. Создание и применение новой радиационностойкой стали для ВКУ новых реакторов типа ВВЭР обеспечит гарантированный проектный ресурс 60 лет и более элементов выгородок реакторов новых энергоблоков, а также повысит конкурентоспособность отечественных АЭС с ВВЭР на мировом рынке

Ways to improve primary buildings of WWER NPP

S21
Koltun, O.V. (AO #Left-Pointing Double Angle Quotation Mark#VNIAEhS#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Puti sovershenstvovaniya osnovnykh zdaniy AEhS tekhnologii VVEhR

p. 590-594

(RU)

7 figs., 1 tab.

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatoma), Moscow (RU)

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NUCLEAR POWER PLANTS; WWER TYPE REACTORS; MODIFICATIONS; CONTAINMENT BUILDINGS; COST; REACTOR SAFETY; SAFETY STANDARDS; COMPARATIVE EVALUATIONS

Implemented now Russian projects of NPP of new generation represent evolutionally modified power units of the II generation with V-320 reactor facilities and appropriate the increased safety requirements. An important challenge is to find ways to improve the projects with the aim of reducing the implementation timeline of the project and its cost. Some of them are considered: The creation of a single joint reactor-auxiliary building instead of two ones; Additional deepening of the reactor building containment for 8-10 m; The use of auxiliary building rooms of reactor building as damping boxes when exposed to shock loads; Set-down of emergency water capacities on the top levels of auxiliary building; The application of damping and energy absorbing devices for seismic and shock loads accommodation; Revealing of reserves of reduction in metal consumption of structural units of the reactor building based on refinement of design loads and calculation methods; Implementation of load-bearing structures of auxiliary buildings on framed diagram with curtain walling of cladding structures

Реализуемые сейчас российские проекты АЭС нового поколения представляют собой эволюционно переработанные энергоблоки II поколения с РУ В-320 и соответствуют возросшим требованиям безопасности. Важной задачей является поиск путей совершенствования проектов с целью уменьшения сроков реализации проекта и его стоимости. Рассмотрены некоторые из них: Создание единого объединенного вспомогательного реакторного здания вместо двух; Дополнительное заглубление гермообъема реакторного здания на 8-10 м; Использование вспомогательных помещений обстройки реакторного здания в качестве демпфирующих боксов при воздействии ударных нагрузок; Размещение емкостей аварийного запаса воды на верхних отметках обстройки; Применение демпфирующих и энергопоглощающих устройств для восприятия сейсмических и ударных нагрузок; Выявление резервов для снижения металлоемкости строительных конструкций реакторного здания на основе уточнения проектных нагрузок и расчетных методов; Выполнение несущих конструкций вспомогательных зданий по каркасной схеме с навесными панелями ограждающих конструкций

Strength analysis and calculational-experimental verification of numerical models of reinforced concrete in inelastic range using in reactor facility and elements important for NPP safety

S97;S36

Modestov, V.S.; Lukin, A.V.; Smirnov, A.B.; Yurchenko, D.A. (Sankt-Peterburgskij Politekhnikeskij Univ. Petra Velikogo, IPMM, Sankt-Peterburg (RU))

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Analiz prochnosti i raschetno-ehksperimental'naya verifikatsiya chislennykh modelej zhelezobetona za predelami uprugikh deformatsij, primenyaemykh v reaktornoj ustanovke, i ehlementakh vazhnykh dlya bezopasnosti AEhS

p. 594-598

(RU)

7 refs., 7 figs.

Rosehnergoatom (Ehлектроehnergeticheskij Divizion Rosatoma), Moscow (RU)

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800 p.

REINFORCED CONCRETE; DEFORMATION; TENSILE PROPERTIES; COMPRESSION; A CODES; CONCRETES; HEAT; DYNAMIC LOADS; ALGORITHMS; MATHEMATICAL MODELS; ACCURACY; NONLINEAR PROBLEMS; VERIFICATION

For the purpose of verification of mathematical models of reinforced concrete deformation and strength, realized by Abaqus software system, a number of natural objectives on fracture analysis of concrete and reinforced concrete under the action of thermal and extreme loads is carried out experimentally and then solved numerically and verified. On the basis of performed full-scale tests and constructed algorithm for definition material deformation curve for studied concrete types computational dependencies of stresses on tensile and compression deformation are obtained. It is shown that the mathematical model of #Left-Pointing Double Angle Quotation Mark#Concrete damaged plasticity#Right-Pointing Double Angle Quotation Mark# allows to take into account the non-linear properties of reinforced concrete with sufficient accuracy

С целью верификации математических моделей деформирования и прочности железобетона, реализованных в программной системе Abaqus, выполнен экспериментально, а затем численно решен и верифицирован ряд натуральных задач по анализу разрушения бетона и железобетона под действием тепловых и экстремальных нагрузок. На основе выполненных натуральных испытаний и построенного алгоритма определения диаграммы деформирования материала для исследуемых типов бетона получены расчетные зависимости напряжений от деформаций при растяжении и сжатии. Показано, что математическая модель #Left-Pointing Double Angle Quotation Mark#Concrete damaged plasticity#Right-Pointing Double Angle Quotation Mark# позволяет с достаточной точностью учитывать нелинейные свойства железобетона

Usage of universal service for the system of WWER-TOI-based projects configuration management

S21;S97

Nodel', A.L. (Filial AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark# po Realizatsii Kapital'nykh Proektov, Moscow (RU))

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Ispol'zovanie edinogo servisa dlya sistemy upravleniya konfiguratsiej proektov na osnove VVEhR-TOI p. 598-600

(RU)

3 figs.

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WWER TYPE REACTORS; COMPUTER-AIDED DESIGN; SPECIFICATIONS; ENGINEERING DRAWINGS; DIAGRAMS; INFORMATION SYSTEMS

In 2009 the development of WWER-TOI base project was started. The performed extensive work resulted not only in the new Russian NPP project, but also in change of approaches to design process in the industry. Integrated information systems providing collective project development were introduced in practice for the first time. The result was a detailed digital description of WWER-TOI base project, which included the related technological and electrical diagrams, 3D models, drawings. This digital description was handed over to the customer. For the first time a practical step was done on the use of data from the NPP information models for the benefit of operating organization, the Customer of the project

В 2009 г. начата разработка базового проекта ВВЭР-ТОИ. Прделанная масштабная работа не только привела к появлению нового российского проекта АЭС, но и изменила подходы к процессу проектирования в отрасли. Впервые введены в практику интегрированные информационные системы, обеспечивающие коллективную разработку проекта. В результате появилось подробное цифровое описание базового проекта ВВЭР-ТОИ, включающее связанные между собой технологические и электрические схемы, 3D модели, чертежи. Это цифровое описание было передано Заказчику. Впервые сделан практический шаг по использованию данных из информационных моделей АЭС в интересах эксплуатирующей организации, Заказчика проекта

Improvement of load-carrying capacity of concrete constructional elements by anisogrid composite structures**S36**

Skleznev, A.A. (FGUP #Left-Pointing Double Angle Quotation Mark#NICH #Left-Pointing Double Angle Quotation Mark#MATI#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Vasil'ev, V.V.; Razin, A.F. (OAO #Left-Pointing Double Angle Quotation Mark#TsNIISM#Right-Pointing Double Angle Quotation Mark#, Khot'kovo (RU))

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 Povyshenie nesushchej sposobnosti betonnykh ehlementov konstruksij pri pomoshchi anizogridnykh kompozitnykh struktur
 p. 600-602
 (RU)
 10 refs., 3 figs., 2 tabs.

Rosehnergoatom (Ehлектроehnergeticheskij Divizion Rosatoma), Moscow (RU)
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CONCRETES; SUPPORTS; CONCRETE-PLASTIC COMPOSITES; MECHANICAL PROPERTIES; COMPUTERIZED SIMULATION; COMPARATIVE EVALUATIONS

The principal possibility of anisogrid composite lattice structures application for the reinforcement of concrete structural elements is shown. Anisogrid composite lattice structure are formed by the method of continuous automated winding, which allows obtaining rigid and strong integrated frames. Fiberglass, basalt-plastic or carbon fiber rod and shell anisogrid structures have a high weight perfection. Experimental study of concrete column reinforced with composite lattice structure showed that the load-carrying ability and stiffness of composite-concrete column are comparable with characteristics of similar reinforced concrete ones. It is noted that the corrosion resistance of composite lattice structure is significantly higher steel rods corrosion resistance

Показана принципиальная возможность применения анизогридных сетчатых композитных структур для армирования бетонных элементов конструкций. Анизогридные композитные сетчатые структуры создаются методом непрерывной автоматизированной намотки, что позволяет получать жесткие и прочные интегральные каркасные системы. Стеклопластиковые, базальтопластиковые или углепластиковые стержневые и оболочечные анизогридные конструкции обладают высоким весовым совершенством. Экспериментальное исследование бетонной колонны, армированной композитной сетчатой структурой, показало, что несущая способность и жесткость композитобетонной колонны сопоставима с характеристиками аналогичных железобетонных колонн. Отмечается, что коррозионная стойкость композитной сетчатой структуры значительно выше коррозионной стойкости стальной арматуры

Warranty tests of NPP units

S21

Kanatov, S.A.; Kondrat'eva, M.A.; Markov, A.O.; Sagalakova, N.G.; Tsvetkov, I.N. (Moskovskij Filial #Left-Pointing Double Angle Quotation Mark#Tsentratomtekhenergo#Right-Pointing Double Angle Quotation Mark# AO #Left-Pointing Double Angle Quotation Mark#Atomtekhenergo#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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 Garantijnye ispytaniya blokov AEhS
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 AO Kontsern Rosehnergoatom
 2016
 800 p.

ROSTOV-2 REACTOR; ROSTOV-3 REACTOR; MODIFICATIONS; WARRANTIES; EQUIPMENT; COMPARATIVE EVALUATIONS; ENERGY EFFICIENCY; TESTING

Warranty tests are part of the NPP units energy efficiency monitoring system. They must be carried out on newly commissioning units and during permanent equipment modifications of existing units affecting the operation efficiency. The results of warranty tests on unit 3 of the Rostov NPP are present, and comparison of turbine plants 2 and 3 of this NPP are carried out

Гарантийные испытания являются частью системы контроля за энергоэффективностью блоков АЭС. Они должны проводиться на вновь вводимых блоках и при модернизациях основного оборудования действующих блоков, влияющих на экономичность работы. Приведены результаты гарантийных испытаний на энергоблоке 3 Ростовской АЭС, и проведено сравнение турбоустановок 2 и 3 этой АЭС

Accounting system of commissioning and reporting documentation during commissioning of power unit - advantages and disadvantages

S96
Gryaznov, A.P.; Korolev, V.V. (AO #Left-Pointing Double Angle Quotation Mark#Atomtekhehnergo#Right-Pointing Double Angle Quotation Mark#, Smolenskij Filial #Left-Pointing Double Angle Quotation Mark#Smolenskatomtekhehnergo#Right-Pointing Double Angle Quotation Mark#, Desnogorsk (RU))
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 Sistema ucheta puskonaladochnoj i otchetnoj dokumentatsii pri vvode v ehkspluatatsiyu ehnerglobloka - dostoinstva i nedostatki
 p. 605-609
 (RU)
 6 figs., 2 tabs.

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NUCLEAR POWER PLANTS; REACTOR COMMISSIONING; ATOMIC ENERGY LAWS;
ADMINISTRATIVE PROCEDURES; DOCUMENTATION; REPORTING REQUIREMENTS; DATA
BASE MANAGEMENT

Each phase of NPP life cycle is regulated by a large number of regulatory documents of different levels. The consideration is given to regulatory requirements on documentation storage; basic principles of accounting, registration and storage of reporting documentation; automated accounting start-up documentation system; architecture of the reporting documentation database. The problems of quality of reporting documentation preparation is discussed

Каждый этап жизненного цикла АЭС регламентируется большим количеством нормативных актов разного уровня. Рассмотрены нормативные требования по хранению документации; основные принципы учета, регистрации и хранения отчетной документации; система автоматизированного учета наладочной документации; архитектура базы данных отчетной документации. Обсуждаются проблемы качества подготовки отчетной документации

Development of WWER-TOI unit daily maneuvering concept

S21

Lyul'chak, V.V.; Malyshev, V.V.; Dolgoplov, N.Yu. (Moskovskij Filial #Left-Pointing Double Angle Quotation Mark#Isentratomtekhehnergo#Right-Pointing Double Angle Quotation Mark# AO #Left-Pointing Double Angle Quotation Mark#Atomtekhehnergo#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Razrabotka kontseptsii sutochnogo manevrirovaniya ehnergobloka s reaktorom VVEhR-TOI

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(RU)

7 figs.

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WWER TYPE REACTORS; POWER GENERATION; CAPACITY; LOAD MANAGEMENT; REACTOR OPERATION

The necessity for substantiation the maneuvering operations of WWER-TOI project units and their target parameters are discussed, as well as the reactor capacity control in maneuvering operations. The results of the calculated analysis of WWER-TOI project unit operation in the daily maneuvering load shedding scheme are given. The expediency of development of hardware and software complex of common block control coordinating local automated control systems of power unit operation during capacity maneuvering is noted. The new requirements of JSC #Left Double Quotation Mark#System Operator of the United Power System#Right Double Quotation Mark# to maneuvering characteristics of WWER-TOI are listed

Обсуждается необходимость обоснования маневренных режимов работы энергоблоков проекта ВВЭР-ТОИ и их целевые параметры, а также управление мощностью реактора в маневренных режимах. Приведены результаты расчетных исследований режимов работы энергоблока проекта ВВЭР-ТОИ в суточном графике несения маневренной нагрузки. Отмечается целесообразность создания программно-технического комплекса общеплочного регулятора, осуществляющего координацию работы локальных систем автоматизированного управления энергоблока в процессе маневрирования мощностью. Приведены новые требования АО #Left Double Quotation Mark#Системный оператор Единой энергетической системы#Right Double Quotation Mark# к маневренным характеристикам энергоблоков ВВЭР-ТОИ

Main commissioning work performed on reactor facility BN-800 of the Beloyarsk NPP unit 4

S21

Sedakov, V.Yu.; Vasil'ev, B.A.; Vorontsov, V.E.; Babushkin, S.V.; Pleskov, A.O.; Timofeev, A.V. (AO #Left-Pointing Double Angle Quotation Mark#OKBM Afrikantov#Right-Pointing Double Angle Quotation Mark#, Nizhnij Novgorod (RU)); Derij, V.P.; Shkurko, V.I.; Podlatov, M.A. (AO #Left-Pointing Double Angle Quotation Mark#Atomtekhehnergo#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Osnovnye puskonaladochnye raboty, vypolnennye na reaktornoj ustanovke BN-800 ehnerglobloka #Numero Sign#4 Beloyarskoj AEhS

p. 615-623

(RU)

6 refs., 9 figs.

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BN-800 REACTOR; REACTOR COMMISSIONING; REACTOR START-UP; SODIUM; COOLANTS; REACTOR COOLING SYSTEMS; REACTOR CONTROL SYSTEMS; ECCS; EQUIPMENT

Commissioning of NPP with BN-800 reactor facility (RF) was carried out stage-by-stage and consisted of: precommissioning works; reactor start-up; power start-up and low power testing; pilot operation and low power testing. During commissioning activities, the following basic works for BN type RF were specific ones: 1. Gaseous reactor heating up; 2. Reactor and secondary loops filling by sodium; 3. Control system adjustment of pumps of primary and secondary circuits; 4. Adjustment of the equipment and control systems of transport and technological path; 5. Adjustment of emergency cooling system of RF via air heat exchangers; 6. Adjustment of devices of sodium technology; 7. Active zone formation and measuring. As a result of the reactor startup the compliance of core neutronics to design one was confirmed

Ввод АЭС с реакторной установкой (РУ) БН-800 в эксплуатацию осуществлялся поэтапно и включал в себя: предпусковые наладочные работы; физический пуск; энергетический пуск и освоение мощности; опытно-промышленную эксплуатацию и освоение мощности. При проведении пусконаладочных работ специфическими для РУ типа БН были следующие основные пусконаладочные работы: 1. Газовый разогрев реактора; 2. Заполнение натрием реактора и петель второго контура; 3. Настройка систем управления насосами первого и второго контуров; 4. Настройка оборудования и систем управления транспортно-технологического тракта; 5. Настройка системы аварийного расхолаживания РУ через воздушные теплообменники; 6. Настройка приборов натриевой технологии; 7. Формирование активной зоны и проведение измерений. В результате физического пуска подтверждено соответствие нейтронно-физических характеристик активной зоны проектным значениям

Organization of performance of individual tests and armature commissioning work of the Novovoronezh NPP-2 unit 1

S21

Borisov, V.V. (AO #Left-Pointing Double Angle Quotation Mark#ATOMTEKhEhNERGO#Right-Pointing Double Angle Quotation Mark# Novovoronezhskij Filial #Left-Pointing Double Angle Quotation Mark#Novovoronezhatomtekhehnergo#Right-Pointing Double Angle Quotation Mark#, Novovoronezh (RU))

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Organizatsiya provedeniya individual'nykh ispytaniy i PNR armatury bloka #Numero Sign#1 NVAEhS-2 p. 623-628

(RU)

4 figs., 3 tabs.

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WWER TYPE REACTORS; VALVES; ELECTRICAL EQUIPMENT; TESTING; NUCLEAR POWER PLANTS; REACTOR PLANNING

For individual testing of valves on the block 1 of the Novovoronezh NPP-2 the control system for individual testings of electric valves is developed and realized. The essence of the system during the unit construction consists in operative planning of installation, adjustment works and individual tests of electric valves on the base of precommissioning schedule

Для проведения индивидуальных испытаний арматуры на блоке 1 Нововоронежской АЭС-2 разработана и реализована система управления процессом индивидуальных испытаний электроприводной арматуры. Суть системы при сооружении блока состоит в оперативном планировании монтажных, наладочных работ и индивидуальных испытаний электроприводной арматуры на основании графиков пуска наладочных работ

Experience of development of stage programmes of the Novovoronezh NPP unit 6 commissioning in the part of lists of nuclear-hazardous works

S21
Sudarev, O.S. (Novovoronezhatomtekhehnergo, Novovoronezh (RU))
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Opyt razrabotki ehtapnykh programm vvoda v ehkspluatatsiyu bloka #Numero Sign#6 NVAEhS v chasti perechnej yaderno-opasnykh rabot

p. 628-631

(RU)

11 refs., 1 fig.

Rosehnergoatom (Ehlektrohnergeticheskij Divizion Rosatoma), Moscow (RU)

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Quotation Mark#. Plenary and sectional papers

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NUCLEAR POWER PLANTS; WWER TYPE REACTORS; REACTOR START-UP; RADIATION HAZARDS; REGULATORY GUIDES; COMPARATIVE EVALUATIONS; REACTOR LIFE CYCLE

Nuclear-hazardous works (NHW) include only such works, violation of the established procedure of which can lead to a nuclear accident. If the need of NHW is resulted from operating documents, it is noted in operating list, which is formed at each NPP. If NHW is a part of one of the stage programs (physical and energy start-ups and pilot operation), it is pointed out in the commissioning list. These two lists are independent, they should not influence each other. Work on NHW lists of stage works for the Novovoronezh

NPP unit 6 is considered. At the time of writing, all NHW-related issues at the stage of physical start-up are decided, but they remain for the stages of power start-up and pilot operation

К ядерно-опасным работам (ЯОР) относятся только такие работы, нарушение установленного порядка проведения которых может привести к ядерной аварии. Если необходимость ЯОР возникает на основании эксплуатационной документации, то она указывается в эксплуатационном перечне, который составляется на каждой АЭС. Если ЯОР включена в одну из этапных программ (физического и энергетического пусков и опытно-промышленной эксплуатации), то она указывается в пусконаладочном перечне. Эти два перечня независимы, они никак не должны влиять друг на друга. Рассмотрена работа над перечнями ЯОР этапных работ для блока #Numero Sign#6 Нововоронежской АЭС. На момент написания доклада все вопросы, связанные с ЯОР на этапе физического пуска, сняты, но они еще остаются для этапов энергетического пуска и опытно-промышленной эксплуатации

Technical guide of armature commissioning work. Changed approach on the Rostov NPP power unit 3

S22

Muzlov, D.V. (NTsTAI Rostovskogo Filiala #Left-Pointing Double Angle Quotation Mark#Rostovatomtekhehnergo#Right-Pointing Double Angle Quotation Mark#, AO #Left-Pointing Double Angle Quotation Mark#Atomtekhehnergo#Right-Pointing Double Angle Quotation Mark#, Volgodonsk (RU))

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Tekhnicheskoe rukovodstvo PNR armaturoj. Izmenennyj podkhod na ehnergobloke #Numero Sign#3 Rostovskoj AEhS

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7 figs.

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ROSTOV-3 REACTOR; ARMATURES; REACTOR COMMISSIONING; MODIFICATIONS; OPTIMIZATION; COMPARATIVE EVALUATIONS; PERSONNEL; INSTALLATION

At the Rostov NPP unit 3 a new approach to commissioning works (CW) of motor operated valves has been developed and implemented. The basis of the new approach: one technical manager (motor operated valves) for technological and electrical parts and automated process control system, formation of integrated commissioning teams (adjustment of valves together with diagnostics), management of cooperation of assembly, electrical-installation and commissioning organizations at all stages of CW, development and maintenance of currently topical database with complete information on each unit of armature with daily

updating. This approach allowed providing: control equipment installation, trouble shooting at early stage, operative technical management of electrical-installation works, development of step-by-step procedure of CW performance and armature delivery to the Customer. The formation of integrated teams helped to reduce the number of personnel in the team and delete the armature failure during commissioning, to shorten the time for CW performance, to delete additional armature dry testing for diagnostics and to ensure high quality of works

На энергоблоке 3 Ростовской АЭС разработан и внедрен новый подход к проведению пусконаладочных работ (ПНР) электроприводной арматуры. Основа нового подхода: один технический руководитель (по электрифицированной арматуре) для технологической и электротехнической частей и автоматизированной системы управления технологическими процессами, создание комплексных пусконаладочных бригад (наладка арматуры совместно с диагностикой), организация взаимодействия монтажных, электромонтажных и пусконаладочных организаций на всех этапах ПНР, разработка и ведение актуальной базы с полной информацией по каждой единице арматуры с ежедневным обновлением. Такой подход позволял обеспечить: контроль монтажа оборудования, выявление и устранение коллизий и дефектов на ранней стадии, оперативное техническое руководство электромонтажными работами, разработку пошаговой процедуры выполнения ПНР и сдачи арматуры Заказчику. Создание комплексных бригад позволило уменьшить численность персонала в бригаде и исключить выход из строя арматуры во время пусконаладочных работ, сократить сроки на выполнение ПНР, исключить дополнительную прокрутку арматуры для выполнения диагностики и обеспечить высокое качество работ

Execution of commissioning reporting documentation during NPP power unit commissioning

S22

Kovnatskij, A.A. (AO #Left-Pointing Double Angle Quotation Mark#Atomtekhehnergo#Right-Pointing Double Angle Quotation Mark#, #Left-Pointing Double Angle Quotation

Mark#Novovoronezhatomtekhehnergo#Right-Pointing Double Angle Quotation Mark#, Novovoronezh (RU))

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25-27 May 2016

Desyataya Mezhdunarodnaya nauchno-tekhnicheskaya konferentsiya #Left-Pointing Double Angle Quotation Mark#Bezopasnost', ehffektivnost' i ehkonomika atomnoj ehnergetiki#Right-Pointing Double Angle Quotation Mark#

Oformlenie otchetnoj dokumentatsii po PNR v protsesse vvoda v ehkspluatatsiyu bloka AS

p. 637-640

(RU)

6 figs.

Rosehnergoatom (Ehлектроehnergeticheskij Divizion Rosatoma), Moscow (RU)

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AO Kontsern Rosehnergoatom

2016

800 p.

NUCLEAR POWER PLANTS; REACTOR COMMISSIONING; REGULATORY GUIDES; REPORTING REQUIREMENTS; REACTOR START-UP

The necessity and responsibility of the reporting documentation execution during NPP power unit commissioning are established by Federal and Industry regulatory documents. The consideration is given to the basic types of reporting documentation, plan of reporting documentation execution, the management of reporting documentation execution process, the peculiarities of forming sets of reporting documentation at practical completion of objects of NPP unit start-up facility

Необходимость и обязательность оформления отчетной документации в процессе ввода в эксплуатацию блока АС установлена Федеральными и Отраслевыми нормативными документами. Рассмотрены основные виды отчетной документации, схемы оформления отчетных документов, организация процесса оформления отчетной документации, особенности формирования комплекта отчетной документации при приемке законченными строительством объектов пускового комплекса блока АС

Diagnostic support of commissioning work at domestic and foreign NPPs. Tasks, functions, prospects

S21

Rachkov, V.L.; Kavrishvili, Z.O. (Rostovskij Filial AO #Left-Pointing Double Angle Quotation Mark#Atomtekhehnergo#Right-Pointing Double Angle Quotation Mark# #Left-Pointing Double Angle Quotation Mark#Rostovatomtekhehnergo#Right-Pointing Double Angle Quotation Mark#, Volgodonsk (RU))

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Diagnosticheskoe soprovozhdenie PNR na otechestvennykh i zarubezhnykh AEhS. Zadachi, funktsii, perspektivy

p. 640-645

(RU)

4 figs., 1 tab.

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ROSTOV-3 REACTOR; REACTOR COMMISSIONING; TESTING; OPTIMIZATION

Some results obtained during diagnostic maintenance of the Rostov NPP unit 3 commissioning are present. With account of the experience conclusions and proposals are formulated in the part of diagnostic maintenance which will allow to optimize the timescale of NPP power units commissioning

Приведены некоторые результаты, полученные в ходе диагностического сопровождения пусконаладочных работ энергоблока #Numero Sign#3 Ростовской АЭС. С учетом полученного опыта сформулированы выводы и предложения в части диагностического сопровождения, которые позволяют оптимизировать сроки пусконаладочных работ энергоблоков АЭС

Practice in complex measurements using mixed systems at various stages of WWER-1200 start-up

S21;S46

Pavelko, V.I. (AO #Left-Pointing Double Angle Quotation Mark#NTTs Diaprom#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Slepov, M.T.; Fedorov, A.I. (Filial AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark# Novovoronezhskaya AEhS, Novovoronezh (RU)); Khajretdinov, V.U. (AO OKB #Left-Pointing Double Angle Quotation Mark#Gidropress#Right-Pointing Double Angle Quotation Mark#, Podol'sk (RU))

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Opyt provedeniya kompleksnykh izmerenij s ispol'zovaniem raznorodnykh sistem na razlichnykh ehtapakh puska ehnergobloka VVEhR-1200

p. 645-650

(RU)

5 refs., 4 figs.

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WWER TYPE REACTORS; REACTOR COMMISSIONING; MEASURING INSTRUMENTS; REACTOR INSTRUMENTATION; EFFICIENCY; ACOUSTIC MEASUREMENTS; TEMPERATURE DEPENDENCE; MECHANICAL VIBRATIONS

One of the possible ways to improve the effectiveness of full-scale tests, and hence, to reduce direct costs of commissioning and initial setting of technical diagnostics systems, may be the concept of joining mixed measuring systems (different in functions, types of measuring channels, routine ones or assembled specifically for commissioning works, etc.) for performing complex measurements. The efficiency is shown of the operational data systems merger in various combinations through external integrating device for more information on the power unit state. The ability of using accelerometers for acoustic standing waves recording in the primary circuit of reactor facility instead of pressure pulsation detector is proved. The dependences of center frequencies of acoustic standing waves on primary coolant temperature are obtained. Unidirectional pendular oscillations of reactor vessel with amplitude not more than 5 μm is revealed

Одним из возможных путей повышения эффективности натурных испытаний, и как следствие, снижения прямых затрат на проведение пусконаладочных работ и первичной настройки систем технического диагностирования, может служить концепция совмещения разнородных измерительных систем (разные по своим функциям, типам измерительных каналов, штатные или смонтированные специально для проведения пуско-наладочных работ и т.д.) при проведении комплексных измерений. Показана эффективность оперативного объединения различных информационных систем в различных их сочетаниях через внешний интегрирующий прибор для получения дополнительной

информации о состоянии энергоблока. Доказана возможность использования акселерометров для регистрации акустических стоячих волн в первом контуре реакторной установки вместо датчиков пульсации давления. Получены зависимости центральных частот акустических стоячих волн от температуры теплоносителя первого контура. Выявлены однонаправленные маятниковые колебания корпуса реакторной установки с размахом не более 5 мкм

Characteristics of steam-air heat exchanger with water supply in air circuit

S42

Ivanov, M.A.; Shmal', I.I. (ASE/AO #Left-Pointing Double Angle Quotation

Mark#Atomenergoproekt#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Kharakteristiki parovozdushnogo teploobmennika s podachej vody v vozdushnyj trakt

p. 650-654

(RU)

3 refs., 8 figs.

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800 p.

REACTOR COOLING SYSTEMS; REACTOR SAFETY; HEAT EXCHANGERS; STEAM GENERATORS; AFTER-HEAT REMOVAL; COMPUTER CALCULATIONS; MATHEMATICAL MODELS; EFFICIENCY; REACTOR ACCIDENTS

The possibilities are considered of outgoing power increasing in the heat exchanger when developing technical solutions and design of NPP passive safety systems. For this a liquid supply on the heat exchange surface in air circuit is proposed. Calculated estimates show that liquid supply from external sources on heat exchange surface increases the capacity of passive heat removal system (PHRS). The increase of PHRS capacity is important for beyond-the-design basis accidents in heat generators cooling modes at the initial stages of primary coolant loss accidents and blackout of power unit. It is noted that liquid supply on heat exchange surface of PHRS air circulation circuit requires minimal changes/improvements of equipment and NPP layout arrangements. Suggestions on PHRS upgrading allow to improve the effectiveness of system for NPP located in areas with hot climate without changes in main design decisions

Рассмотрены возможности увеличения отводимой мощности в теплообменнике при разработке технических решений и проектировании пассивных систем безопасности АЭС. Для этого предложена подача жидкости на поверхность теплообмена в воздушный тракт. Выполненные расчетные оценки показали, что подача жидкости из внешних источников на поверхность теплообмена повышает мощность системы пассивного отвода тепла (СПОТ). Повышение мощности СПОТ актуально для запроектных аварий в режимах расхолаживания парогенераторов на начальных стадиях аварий с

течами первого контура и полным обесточиванием энергоблока. Отмечается, что подача жидкости на поверхность теплообмена воздушного контура циркуляции СПОТ требует минимальных изменений/доработок оборудования и компоновочных решений АЭС. Предложения по модернизации СПОТ позволяют повысить эффективность системы для АЭС, расположенных в районах с жарким климатом без изменений основных проектных решений

Use of the Baltic NPP site for siting WWER-1200 NPP

S21

Baukin, A.V.; Temishev, R.R.; Rachkova, O.L.; Andreev, D.A.; Zakharov, D.I.; Neprin, V.A. (AO #Left-Pointing Double Angle Quotation Mark#VNIAEhS#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Ispol'zovanie ploshchadki Baltijskoj AEhS dlya razmeshcheniya AEhS VVEhR-600

p. 654-659

(RU)

6 figs., 5 tabs.

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NUCLEAR POWER PLANTS; WWER TYPE REACTORS; SITE PREPARATION; VARIATIONS; MODIFICATIONS; ECONOMIC ANALYSIS; COMPARATIVE EVALUATIONS

Three variants of adapting the Baltic NPP site for NPP WWER-600 construction are under consideration. Variants differ in degree of utilization of already constructed buildings, roads and communications: full dismantling, partial or probable maximum use of constructed buildings and structures. Construction of two-unit NPP WWER-600 makes it possible to cover the electric shortage and to ensure the independence of the Kaliningrad region from hydrocarbon fuel supply. The cost of dismantling is calculated, the possibility of the use of equipment purchased for the Baltic NPP in new project and capital expenditure on considered variants on construction of one WWER-600 power unit are evaluated. It is shown that realization of the 3-rd variant result in maximal savings - 9.58% from the sum of the NPP WWER-600 capital cost that is 10.38 billion rubles

Рассматриваются три варианта адаптации площадки Балтийской АЭС для строительства АЭС ВВЭР-600. Варианты различаются по степени использования уже возведенных зданий, дорог и коммуникаций: полный демонтаж, частичное и максимально возможное использование возведенных зданий и сооружений. Возведение двухблочной АЭС ВВЭР-600 позволяет покрыть дефицит электроэнергии и обеспечить независимость Калининградской области от поставок углеводородного топлива. Проведен расчет стоимости демонтажа, оценка возможности использования закупленного

оборудования Балтийской АЭС в новом проекте и оценка капитальных затрат по рассмотренным вариантам на строительство одного энергоблока ВВЭР-600. Показано, что при реализации 3-го варианта достигается наибольшая экономия - 9,58% от суммы капитальных затрат АЭС ВВЭР-600, что составляет 10,38 млрд. рублей

Improving the efficiency of NPP heat supply system

S22

Mityukhina, E.A.; Nikitin, V.V.; Shejnov, A.V. (AO #Left-Pointing Double Angle Quotation Mark#Atomenergoproekt#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Povyshenie ehffektivnosti sistemy teplosnabzheniya AEhS

p. 659-664

(RU)

7 refs., 11 figs.

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NUCLEAR POWER PLANTS; HEAT DISTRIBUTION SYSTEMS; COMPARATIVE EVALUATIONS; EFFICIENCY; HEATING; STEAM GENERATION PLANTS; WATER TREATMENT; VENTILATION SYSTEMS; OPTIMIZATION

The optimization of heat supply systems (HSS) for new NPP projects is discussed. Comparison of schemes of HSS sources, connection of heat energy consumers and charging system with alternative schemes is carried out. On the basis of this analysis, the scheme of the NPP HSS is proposed. The installation of steam boilers with line heaters in auxiliary boiler is recommended. It is noted that the scheme with chemical and membrane deaeration is the best for make-up water treatment. The scheme of ventilation equipment piping that provides the given heat power is chosen. The main factors effecting the HSS working capability are revealed as well as disadvantages and remedy, which gives the possibility to develop and improve existing HSS schemes. HSS optimization is carried out with the account of existing technical tools and the use of new solutions

Обсуждается оптимизация системы теплоснабжения (СТС) для использования в новых проектах АЭС. Проведено сравнение схем источников СТС, подключения потребителей тепловой энергии и системы подпитки с альтернативными схемами. На основании проведенного анализа предложена схема СТС АЭС. Рекомендована установка паровых котлов с сетевыми подогревателями в пускорезервных котельных. Отмечается, что схема с химической и мембранной деаэрацией является наиболее оптимальной при подготовке подпиточной воды. Выбрана схема обвязки вентиляционного оборудования, обеспечивающая заданную тепловую мощность. Выявлены основные факторы,

влияющие на работоспособность СТС, а также недостатки и способы их устранения, что дает возможность разработать и усовершенствовать существующие схемы СТС. Выполнена оптимизация СТС с учетом существующих технических средств и использованием новых решений

Investigation on thermohydraulic characteristics of high-voltage and high-temperature transformers using full-scale 3D model of winding fragment

S42

Bespalov, V.Ya.; Vinogradov, A.A.; Petrov, A.V.; Sedov, M.K.; Sidorov, A.O.; Shishov, A.V. (NIU #Left-Pointing Double Angle Quotation Mark#MEI#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Issledovanie teplogidravlicheskih kharakteristik vysokovol'tnykh i vysokotemperaturnykh transformatorov s ispol'zovaniem polnomasshtabnoj trekhmernoj modeli fragmenta obmotki

p. 664-668

(RU)

12 figs.

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NUCLEAR POWER PLANTS; TRANSFORMERS; INSULATING OILS; COOLING SYSTEMS; DIELECTRIC MATERIALS; COOLING; TROPICAL REGIONS; CLIMATES

High-voltage high-temperature transformer for NPP operating in hot climates with a radically new design of windings is considered. In the transformer every single wire of primary and secondary windings is cooled by transformer oil (or other liquid dielectric), therefore there is a uniform heat removal from wire surface along all length. The winding turns in regards to the flow form cross-flow in-line wire bunches. The construction of such winding is called #Left-Pointing Double Angle Quotation Mark#Cone winding#Right-Pointing Double Angle Quotation Mark#. This technical solution allows to increase significantly the current density in the wire, to reduce the mass of copper wire of windings and liquid dielectric, to ensure reliable operation of the transformer at the temperature of its tank under the Sun up to 100 #Degree Sign#C without external cooling by blowers or by other ways with electricity consumption

Рассмотрен высоковольтный высокотемпературный трансформатор для АЭС, работающих в жарком климате, с принципиально новой конструкцией обмоток. В трансформаторе каждый отдельный провод первичной и вторичной обмоток охлаждается трансформаторным маслом (или иным жидким диэлектриком), поэтому происходит равномерный теплоотвод с поверхности провода по всей его длине. Витки обмоток образуют по отношению к потоку поперечно обтекаемые коридорные пучки проводов. Конструкция такой обмотки получила название #Left-Pointing Double Angle Quotation

Mark#Обмотка конусная#Right-Pointing Double Angle Quotation Mark#. Такое техническое решение позволяет значительно увеличить плотность тока в проводе, уменьшить массу медного провода обмоток и жидкого диэлектрика, обеспечить надежную работу трансформатора при температуре его корпуса под солнцем до 100 #Degree Sign#C без внешнего охлаждения вентиляторами, или другими способами, требующими затрат электроэнергии

Performance features of cold supply systems of NPP air-conditioning systems under conditions of off-design climate parameters

S42
Synkov, I.V.; Gogolev, N.A.; Prusova, Zh.V. (AO #Left-Pointing Double Angle Quotation Mark#Atomenergoproekt#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))
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Osobennosti funktsionirovaniya sistem kholodosnabzheniya SKV AEhS v usloviyakh neraschetnykh klimaticheskikh parametrov

p. 668-673

(RU)

6 refs., 3 figs., 3 tabs.

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NUCLEAR POWER PLANTS; AIR CONDITIONING; COOLING; VENTILATION SYSTEMS; MATHEMATICAL MODELS; COOLING LOAD; COMPARATIVE EVALUATIONS

A new approach to choosing the design parameters of NPP air conditioning systems (ACS) is suggested. Its key features are the development of unified techniques for selecting design parameters for various systems; graduation of internal conditions for compartments; implementation of verification calculations of ACS in accordance with the gradation of internal conditions for compartments. The validity of the proposed approach is clearly shown. The selected power is sufficient to ensure acceptable parameters in compartments. The exceedence of optimal parameters has not explicit nature that points at zero systematization in the process during one year. To solve this problem it is enough to execute correction of required cooling power on 10-15%, which significantly reduces the cost of equipment for refrigeration supply and air conditioning systems. An example of verification calculation for ACS of electrical compartments of Bushehr NPP-2 is considered

Предложен новый подход к выбору расчетных параметров систем кондиционирования воздуха (СКВ) АЭС, ключевыми особенностями которого являются: разработка единой методики выбора расчетных параметров для различных систем; градация внутренних условий для помещений; выполнение поверочных расчетов СКВ в соответствии с принятой градацией внутренних условий для помещений.

Наглядно показана обоснованность предложенного подхода. Выбранной мощности достаточно для обеспечения допустимых параметров в помещениях. Превышение оптимальных параметров не имеет четко выраженного характера, что указывает на отсутствие системности в данном процессе в течение одного года. Для решения данной проблемы достаточно выполнить поправку на требуемую холодильную мощность на 10-15%, что позволяет значительно сократить затраты на оборудование систем холодоснабжения и кондиционирования воздуха. Рассмотрен пример поверочного расчета для СКВ электротехнических помещений АЭС Бушер-2

WBER-600 reactor facility for mid-size plants. Basic design-structural solutions and characteristics

S21

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Reaktornaya ustanovka VBEhR-600 dlya ehnergoblokov srednej moshchnosti. Osnovnye skhemno-konstruktivnye resheniya i kharakteristiki

p. 673-677

(RU)

5 figs., 1 tab.

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SHIP PROPULSION REACTORS; STEAM GENERATION; REACTOR CORES; FUEL CYCLE; REACTOR SAFETY; REACTOR OPERATION; REACTOR LIFE CYCLE; OPERATING COST; COMPARATIVE EVALUATIONS

The concept of WBER reactor facilities of block type for regional power production is considered, it is based on combination of technologies of transport nuclear steam generating plants with solutions developed in civil nuclear power industry for core and fuel cycle. Design, technological and operational characteristics of WBER-600 reactor, confirmed by referentiality on the base of ship facilities and WWER fuel, are aimed at ensuring competitive technical-and-economic characteristics of midsize NPP (safety, reliability, maneuverability, flexibility in application, duration and cost of construction, operating cost values). The achieved midsize NPP characteristics allow to consider them as a promising direction of nuclear energy use in addition to the high-power NPP power units

Рассмотрена концепция реакторных установок ВБЭР блочного типа для региональной энергетики, которая основана на сочетании технологий транспортных атомных паропроизводящих установок с

отработанными в гражданской атомной энергетике решениями по активной зоне и топливному циклу. Конструктивные, технологические и эксплуатационные характеристики реакторной установки ВВЭР-600, подтвержденные референтностью на базе судовых установок и топлива ВВЭР, направлены на обеспечение конкурентоспособных технико-экономических показателей АЭС средней мощности (безопасность, надежность, маневренность, удобство эксплуатации, продолжительность и стоимость сооружения, величина эксплуатационных затрат). Достигнутые проектные показатели АЭС средней мощности позволяют их рассматривать как перспективное направление использования ядерной энергии в дополнение к энергоблокам АЭС большой мощности

Renewable energy sources, fossil fuels and environment-oriented nuclear power industry S54

Boldyrev, V.M. (Mezhdunarodnyj Soyuz Veteranov Atomnoj Ehnergetiki i Promyshlennosti, Moscow (RU))

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Vozobnovlyaemye istochniki ehnergii, organicheskoe toplivo i ehkologichnaya atomnaya ehnergetika

p. 677-681

(RU)

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ECOLOGY; EARTH ATMOSPHERE; OXYGEN; GREENHOUSE EFFECT; NUCLEAR ENERGY; COMPARATIVE EVALUATIONS

The problems of fossil fuels usage, #Left-Pointing Double Angle Quotation Mark#greenhouse effect#Right-Pointing Double Angle Quotation Mark# and its impact on the environment are under consideration. It is noted that the protection of atmospheric oxygen stocks from the industrial consumption today is a priority in the sphere of regulation of the relationship between humanity and nature and can be addressed only by the development of cost-effective and safe atomic energy

Рассмотрены вопросы применения органического топлива, #Left-Pointing Double Angle Quotation Mark#парникового эффекта#Right-Pointing Double Angle Quotation Mark# и его последствий для экологии. Отмечается, что защита запасов атмосферного кислорода от промышленного потребления является сегодня приоритетной задачей в сфере регулирования взаимоотношений между человечеством и природой и может решаться только развитием экономичной и безопасной атомной энергетики

Commissioning of containment control system at unit 3 of the Rostov NPP S42

Lebedev, I.L. (AO #Left-Pointing Double Angle Quotation Mark#Atomtekhehnergo#Right-Pointing Double Angle Quotation Mark#, Filial #Left-Pointing Double Angle Quotation Mark#Rostovatomtekhehnergo#Right-Pointing Double Angle Quotation Mark#, Volgodonsk (RU))
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 Vvod v ehkspluatatsiyu sistemy kontrolya zashchitnoj obolochki na ehnergobloke #Numero Sign#3 Rostovskoj AEhS
 p. 681-683
 (RU)
 4 figs.

Rosehnergoatom (Ehлектроehnergeticheskij Divizion Rosatoma), Moscow (RU)
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ROSTOV-3 REACTOR; CONTAINMENT SHELLS; COMMISSIONING; REACTOR MONITORING SYSTEMS; CRANES; INSTALLATION; DEFORMATION; EFFICIENCY; OPTIMIZATION

Commissioning works on suite of containment shell monitoring systems at the unit 3 of the Rostov NPP are described. A systemic problem is revealed, the essence of which is that after polar crane installation and before the end of the concrete casting of dome part ellipticity of containment shell appears. There is a need to introduce the monitoring system of stress strain behavior (SSB) of crane rails before polar crane operating, as well as to provide measurements with the use of the system during the installation of heavy equipment. The information obtained will permit to determine the degree of containment elements damage and to develop recommendations on shell operational suitability maintenance. Equipment of containment shell monitoring systems is recommended to transfer from mark 41.4 to mark 13.2, to install strain measuring converters gauges on the console of crane rails and to put in operation the SSB measuring system of crane rails. Such decision permits also to put in operation measurement system for building structures SSB of the shell, which in turn permit to save substantial money

Описаны работы по сдаче в эксплуатацию комплекса систем контроля защитной оболочки на энергоблоке #Numero Sign#3 Ростовской АЭС. Выявлена системная проблема, суть которой заключается в том, что после монтажа полярного крана и до окончания заливки бетоном купольной части, появляется эллипсность защитной оболочки. Отмечается необходимость ввода системы контроля напряженно-деформированного состояния (НДС) подкрановых путей до начала эксплуатации полярного крана, а также обеспечить проведение измерений с помощью системы в период монтажа тяжеловесного оборудования. Полученная информация позволит определить степень повреждаемости элементов защитной оболочки и разработать рекомендации по обеспечению эксплуатационной пригодности оболочки. Рекомендовано перенести оборудование систем контроля защитной оболочки с отметки 41.4 на отметку 13.2, установить датчики преобразователей деформации измерительных на консоли подкрановых путей и ввести систему измерения НДС подкрановых путей в эксплуатацию. Такое решение позволяет также запустить и систему измерения

НДС строительных конструкций оболочки, что в свою очередь позволяет сэкономить существенные денежные средства

Competitiveness of nuclear extra low-powered sources in conditions of Russian Far North territories

S21

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Konkurentosposobnost' yadernykh ehnergoistochnikov osobo maloj moshchnosti v usloviyakh territorij Krajnego Severa Rossii

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POWER PLANTS; DIESEL FUELS; NUCLEAR FUELS; ARCTIC REGIONS; CAPITALIZED COST; COST; COMPARATIVE EVALUATIONS

The estimation of indices of performance and competitiveness of extra low power nuclear sources (ELPNS) in relation to diesel power plants (DPP) of the same electrical power in the regions of the Far North is carried out. It is shown that ELPNS can compete with DPP as a technological power sources, if the cost of their electricity is below the cost of electricity generating by DPP. Therefore, it becomes important to develop monitoring and control systems of a group of ELPNS from one control center; this will result in decreasing the electricity cost of such sources

Проведена оценка показателей эффективности и конкурентоспособности ядерных энергоисточников особо малой мощности (ЯЭОММ) по отношению к дизельным энергостанциям (ДЭС) такой же электрической мощности в районах Крайнего Севера. Показано, что ЯЭОММ могут конкурировать с ДЭС в качестве технологических энергоисточников, если себестоимость производимой ими электроэнергии ниже себестоимости электроэнергии ДЭС. Поэтому становится актуальной разработка систем мониторинга и управления группой ЯЭОММ из единого центра управления, что приведет к снижению себестоимости электроэнергии таких источников

Assessment methodology of electricity cost: scientific and practical aspects

S21

Chernyakhovskaya, Yu.V. (Goskorporatsiya #Left-Pointing Double Angle Quotation Mark#Rosatom#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Metodologiya otsenki stoimosti ehlektroehnergii: nauchno-prakticheskie aspekty

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ELECTRIC POWER; PRICES; COST ESTIMATION; POWER PLANTS; COMPARATIVE EVALUATIONS

The cost of electricity from various generating technologies is estimated by calculation or simulation. The stages and the different concepts of the approach to assessing the cost of electricity are considered. Analysis of the evolution of the concepts of kilowatt-hour valuation allows to draw a conclusion about the close relationship between academic researches and practical necessity to take decisions on various aspects of development of electricity markets and individual generating objects on it. In the State Atomic Energy Corporation Rosatom techniques for estimating the cost of electricity which are used at different stages of NPP life cycle are developed; the improvement of tools for simulating the cost of kilowatt-hour produced at NPPs according to Russian technologies (resource model and system dynamic simulation) is continued

Оценка стоимости электроэнергии от различных генерирующих технологий производится с помощью расчета или моделирования. Рассмотрены этапы и различные концепции в подходе к оценке стоимости электроэнергии. Анализ эволюции концепций по оценке стоимости киловатт-часа позволяет сделать вывод о тесной связи между научно-академическими исследованиями и практической необходимостью принимать решения по разным аспектам развития рынков электроэнергии и отдельных объектов генерации на нем. В Госкорпорации #Left-Pointing Double Angle Quotation Mark#Росатом#Right-Pointing Double Angle Quotation Mark# разработаны методики оценки стоимости электроэнергии, используемые на разных стадиях жизненного цикла АЭС; продолжается совершенствование инструментария по моделированию стоимости киловатт-часа, произведенного на АЭС по российским технологиям (ресурсной модели и системы динамического моделирования)

Comparison of scenarios of energy development on the base of NPP, TPP and renewable energy sources

S21

Pavlov, A.S.; Temishev, R.R. (AO #Left-Pointing Double Angle Quotation Mark#VNIIAEhS#Right-Pointing

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Sravnienie variantov razvitiya ehnergetiki na baze AEhS, TEhS i vozobnovlyaemykh istochnikov ehnergii p. 694-699

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ELECTRIC POWER; POWER PLANTS; POWER GENERATION; COST; COMPARATIVE EVALUATIONS; RUSSIAN FEDERATION

The consideration is given to scenarios of long-term development of electric generation in the European part of the Russian Federation on the base of nuclear and thermal power plants, as well as renewable energy sources. At the actual status of the economy, the efficiency of WWER NPPs and combined-cycle plants is roughly the same even in the face of falling demand for oil and gas. With the possible growth of natural uranium prices, NPPs with fast reactors and especially two-component systems with thermal and fast reactors become competitive. These systems markedly reduce the need for natural uranium and maintain competitiveness in regards to the combined-cycle plants. Levelised electricity generation costs for scenarios with energy development on the base of renewable energy sources are much higher than for scenarios with NPPs construction

Рассмотрены варианты долгосрочного развития электрической генерации в европейской части Российской Федерации на базе атомных и тепловых электростанций, а также возобновляемых источников энергии. При современном состоянии экономики АЭС с реакторами ВВЭР примерно равноэкономичны с парогазовыми установками даже в условиях падения спроса на нефть и газ. При возможном росте цен на природный уран становятся конкурентоспособными АЭС с реакторами на быстрых нейтронах и особенно двухкомпонентные системы, включающие реакторы на тепловых и быстрых нейтронах. Такие системы существенно сокращают потребность в природном уране и сохраняют конкурентоспособность по отношению к парогазовым установкам. Удельные приведенные затраты для вариантов с развитием энергетики на базе возобновляемых источников энергии оказываются значительно выше, чем для вариантов со строительством атомных электростанций

Peculiarities of discounting method application when performing economic appraisals of nuclear power designs

S21

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Osobennosti primeneniya metoda diskontirovaniya pri vypolnenii ehkonomicheskikh otsenok proektov atomnoj ehnergetiki

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ELECTRIC POWER; NUCLEAR POWER PLANTS; COST; COST ESTIMATION; ECONOMIC ANALYSIS; COMPARATIVE EVALUATIONS

There is a brief review and analysis of problems related to the methodological aspects of the discounting method, to discount rate and economic techniques based on the discounting method of the cost values. Today, techniques based on the cash flow discounting method undergo many transformations, which bring in these techniques many new factors requiring prior analysis and justification. The parameter of discount rate also requires a specific analytical justification for assessing the NPP design economic efficiency. According to the discounting method it is considered that today's money have a higher price than tomorrow's ones, modern realities show a reverse trend, which experts think to be a long-term

Представлены краткий обзор и анализ вопросов, относящихся к методологическим аспектам метода дисконтирования, к параметру ставка (норма) дисконта и экономическим методикам, основанным на методе дисконтирования стоимостных величин. Сегодня методики, основанные на методе дисконтирования денежных потоков, претерпевают множество трансформаций с включением в эти методики большого количества новых факторов, требующих предварительного анализа и обоснования. Параметр норма дисконта также требует определенного аналитического обоснования для оценки экономической эффективности проекта АЭС. Согласно методу дисконтирования считается, что сегодняшние деньги имеют более высокую цену, чем завтрашние, современные реалии демонстрируют обратный тренд, который эксперты считают долговременным

Forming and accounting of expenditures for liquid radioactive waste treatment at the branch of JSC #Left-Pointing Double Angle Quotation Mark#Concern Rosenergoatom#Right-Pointing Double Angle Quotation Mark# #Left-Pointing Double Angle Quotation Mark#Kola Nuclear Power Plant#Right-Pointing Double Angle Quotation Mark# S12;S29

Popov, O.A. (Filial AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark# #Left-Pointing Double Angle Quotation Mark#Kol'skaya Atomnaya

Stantsiya#Right-Pointing Double Angle Quotation Mark#, Polyarnye Zori (RU))

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Formirovanie i uchet zatrat na pererabotku zhidkikh radioaktivnykh otkhodov v Filiale AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark# #Left-Pointing Double Angle Quotation Mark#Kol'skaya atomnaya stantsiya#Right-Pointing Double Angle Quotation Mark#

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RADIOACTIVE WASTES; RADIOACTIVE WASTE MANAGEMENT; NUCLEAR POWER PLANTS; RADIOACTIVE WASTE FACILITIES; LIQUID WASTES; ACCOUNTING; COST; COMPARATIVE EVALUATIONS

For liquid radioactive waste (LRW) processing on the Kola NPP in 2006 year the LRW treatment facility is commissioned. The technology of ion selective purification of waste bottoms is realized here for the first time on an industrial scale, it allows processing all kinds of LRW from the NPP. The final products of LRW processing are radwaste container for permanent burial (filter-container) and salt melt which is not radioactive waste. The LRW treatment facility makes it possible to decrease the amounts of LRW and final product for permanent burial as low as possible; to increase free volumes for LRW storage; to minimize the expenditures of subsequent storage, transportation and permanent burial when transferring radioactive wastes to national operator. The expenditures for LRW processing on the Kola NPP are formed separately in-situ expenditure occurrence, namely for each radioactive waste code. The methodology of formation and accounting of expenditures for LRW processing allows to divide clearly the costs for LRW treatment according to the right of ownership

Для переработки жидких радиоактивных отходов (ЖРО) на Кольской АЭС в 2006 году введен в эксплуатацию комплекс переработки ЖРО, на котором впервые в промышленном масштабе реализована технология ионоселективной очистки кубовых остатков, позволяющая перерабатывать все виды ЖРО, образующихся на АЭС. Конечными продуктами переработки ЖРО являются упаковка, предназначенная для окончательного захоронения (фильтр-контейнер) и солевой плав, который не является радиоактивным отходом. Комплекс переработки ЖРО позволяет максимально возможно уменьшить объемы ЖРО и конечного продукта, подлежащего длительному захоронению; увеличить свободные объемы для хранения ЖРО; минимизировать затраты на последующее хранение, транспортировку и окончательное захоронение при передаче РАО национальному оператору. Затраты на переработку ЖРО на Кольской АЭС формируются обособленно по месту возникновения затрат, а именно по каждому коду РАО. Методология формирования и учета затрат на переработку ЖРО позволяет четко разделить расходы на обращение с ЖРО по праву собственности

Peculiarities of pricing and NPP financing in technologically isolated electric power system of Chukotka Autonomous Okrug

S21
Solov'eva, S.V. (Filial AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark# #Left-Pointing Double Angle Quotation Mark#Bilibinskaya Atomnaya Stantsiya#Right-Pointing Double Angle Quotation Mark#, Bilibino (RU))

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Osobennosti tsenoobrazovaniya i finansirovaniya AEhS v tekhnologicheski izolirovannoj ehnergosisteme Chukotskogo avtonomnogo okruga

p. 710-717

(RU)

6 figs., 2 tabs.

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BILIBIN REACTOR; ELECTRIC POWER; POWER DEMAND; COST; FINANCIAL INCENTIVES; PRICES; COMPARATIVE EVALUATIONS; NUCLEAR POWER PLANTS

The consideration is given to peculiarities of process operation and tariff regulation on electric power (capacity) of the Bilibino NPP, as well as to measures on stabilization of electricity (capacity) tariffs. A high tariff for the production of electrical energy (capacity) is explained not by low the Bilibino NPP economic efficiency but features of operation in a self-contained power system with a limited narrow range of consumers and, as a consequence, not at full loading. There is a need for appropriation of funds from the Federal budget to check electricity prices (tariffs) for consumers of Chukotka Autonomous Okrug. The absence of a mechanism for partial compensation of economically sound costs of generator locating in the technologically closed and territorially isolated system of Chukotka Autonomous Okrug, in the period 2016-2021 is pointed out

Рассмотрены особенности технологической работы и тарифного регулирования по электроэнергии (мощности) Билибинской АЭС, а также мероприятия по стабилизации тарифов на электроэнергию (мощность). Высокий тариф на производство электрической энергии (мощности) Билибинской АЭС объясняется не низкой экономической эффективностью станции, а особенностями работы в изолированной энергосистеме с ограниченным узким кругом потребителей и, как следствие, не на полной загрузке. Существует необходимость выделения средств из Федерального бюджета в целях сдерживания резкого роста цен (тарифов) на электрическую энергию для конечных потребителей Чукотского автономного округа. Отмечается отсутствие механизма частичной компенсации экономически обоснованных затрат генератора, расположенного в технологически замкнутой и территориально изолированной системе Чукотского автономного округа, на период 2016-2021 годов

Simulation of NPP economic indicators in software package of System model of atomic complex (SMAC)

S21;S97

Molokanov, N.A. (OAO #Left-Pointing Double Angle Quotation Mark#NIKIEhT#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Modelirovanie ehkonomicheskikh pokazatelej AEhS v PK SMAK

p. 717-722

(RU)

7 figs.

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NUCLEAR POWER PLANTS; THERMAL REACTORS; FAST REACTORS; DECISION MAKING; S CODES; REACTOR DESIGN; REACTOR PLANNING; COST ESTIMATION; COMPETITION

The software package #Left Double Quotation Mark#System model of atomic complex#Right Double Quotation Mark# (SP SMAC) is designed to support managerial decision-making when analyzing NPP construction (operation) projects with thermal and fast reactors. Implemented in SP SMAC object-oriented programming and simulation allow assembling various functional modules forming required power system structure according to the power unit type and nuclear fuel cycle technology for making-out economic and power balances. For each object in the system, individual technical-and-economic characteristics are set, economic efficiency of project implementation in different price level is defined. On the upper level indicators are integrated to determine the cost-effectiveness of the energy complex as a whole. The integrated index of the upper level is leveled cost of electricity, which characterizes the competitiveness of the project in whole and is defined in the model with account for discounting. The structure of operating costs determination corresponds to the adopted structure of Concern Rosenergoatom. Material balance of fissile isotopes is simulated in SP SMAC in detail. It is possible to export all computation data to MS EXCEL

Программный комплекс #Left-Pointing Double Angle Quotation Mark#Системная модель атомного комплекса#Right-Pointing Double Angle Quotation Mark# (ПК СМАК) предназначен для поддержки принятия управленческих решений при анализе проектов сооружения (эксплуатации) АЭС с тепловыми и быстрыми реакторами. Реализованное в ПК СМАК объектно-ориентированное программирование и моделирование позволяет компоновать из различных функциональных модулей необходимую структуру энергосистемы в зависимости от типа энергоблока и технологии ядерного топливного цикла для построения экономических и материальных балансов. Для каждого объекта в системе задаются индивидуальные технико-экономические характеристики, определяется экономическая эффективность реализации проекта в различном уровне цен. На верхнем уровне

показатели интегрируются для определения экономической эффективности энергокомплекса в целом. Интегральным показателем верхнего уровня является удельная приведенная стоимость электроэнергии, которая характеризует конкурентоспособность всего проекта в целом и определяется в модели с учетом дисконтирования. Структура определения эксплуатационных затрат соответствует принятой структуре Концерна Росэнергоатом. В ПК СМАК довольно подробно моделируется материальный баланс по делящимся изотопам. Все расчетные данные возможно экспортировать в MS EXCEL

Uranium resources saving during WWER-1000 reactor conversion on reprocessed fuel S11

Solov'ev, S.V.; D'yachenko, A.I.; Balagurov, N.A.; Artisyuk, V.V. (NOU DPO #Left-Pointing Double Angle Quotation Mark#TsIPK Rosatoma#Right-Pointing Double Angle Quotation Mark#, Obninsk (RU))

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Ehkonomiya resursov urana pri perevode reaktora VVEhR-1000 na regenerirovannoe toplivo

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5 figs., 2 tabs.

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URANIUM RECYCLE; URANIUM; REPROCESSING; WWER TYPE REACTORS; SPENT FUELS; COMPARATIVE EVALUATIONS

The research results of three strategies of WWER-1000 transfer on reprocessed uranium are present. Large-scale involvement of reprocessed uranium would lead to the possibility of forming additional fuel kernels. Involving of spent fuel of on-site storage facilities in WWER-1000 reactor fuel cycle allows to reduce the use period of #Left-Pointing Double Angle Quotation Mark#unprotected#Right-Pointing Double Angle Quotation Mark# fuel for four years. Analysis of uranium resource savings for different scenarios of WWER-1000 transfer on reprocessed uranium shows that natural uranium economy for 60 years of power unit operation ranges from 15 to 18.6% depending on the choice of reactor transfer strategies on reclaim

Представлены результаты исследований трех стратегий перевода реактора ВВЭР-1000 на регенерированный уран. Масштабное вовлечение регенерированного урана приведет к возможности формирования дополнительных топливных загрузок. Вовлечение отработавшего топлива пристанционных хранилищ в топливный цикл реактора ВВЭР-1000 позволяет сократить время использования #Left-Pointing Double Angle Quotation Mark#незащищенного#Right-Pointing Double Angle Quotation Mark# топлива на четыре года. Анализ экономии ресурсов урана для различных сценариев перевода реактора ВВЭР-1000 на регенерированный уран показывает, что экономия

природного урана за 60 лет эксплуатации энергоблока варьируется от 15 до 18,6% в зависимости от выбора стратегии перевода реактора на регенерат

Assessment of fuel utilization efficiency at NPPs of Ukraine

S21
Glushenkov, R.S. (Gosudarstvennoe Predpriyatie #Left-Pointing Double Angle Quotation Mark#Natsional'naya Atomnaya Ehnergeticheskaya Kompaniya #Left-Pointing Double Angle Quotation Mark#Ehnergoatom#Right-Pointing Double Angle Quotation Mark#, Kiev (UA))
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 Otsenka ehffektivnosti toplivoispol'zovaniya na AEhS Ukrainy
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NUCLEAR POWER PLANTS; NUCLEAR FUELS; EFFICIENCY; FUEL CYCLE; BURNUP; FUEL ASSEMBLIES; REACTOR CORES; CORRELATIONS

In the beginning of 2015 at the Ukrainian NPPs, #Left-Pointing Double Angle Quotation Mark#The calculation procedure of fuel utilization (FU) indices of WWER-1000 power units of SE NPP#Right-Pointing Double Angle Quotation Mark# is implemented. Data on 2015 obtained by this procedure are present, the FU efficiency and regularities revealed are analyzed. The implementation of the Procedure allows to analyze FU more completely with respect to core neutronics. It is noted that the effect of core configuration changes is manifested after a while. Therefore, it is advisable to analyze FU effectiveness according to several fuel cycles. It is shown that indices of specific natural uranium consumption and average burnup of unloaded fuel assemblies are significantly depend on the presence of prematurely unloaded fuel assemblies, as well as on their location in the core and quantity of worked out fuel campaigns. It is underlined that the economic efficiency of the NPP is a combination of many factors, therefore, the effectiveness of the FU cannot be the only indicator of the NPP operation effectiveness but high FU indices are one of the most important components of this efficiency

В начале 2015 года на АЭС Украины внедрена #Left-Pointing Double Angle Quotation Mark#Методика расчета показателей топливоиспользования энергоблоков ВВЭР-1000 на ОП АЭС#Right-Pointing Double Angle Quotation Mark#. Приведены полученные по этой методике данные за 2015 г., проанализированы эффективность ТИ и обнаруженные закономерности. Внедрение Методики позволяет более полно проводить анализ ТИ, учитывая нейтронно-физические характеристики активных зон. Отмечается, что эффект от изменения в компоновках активных зон проявляется через

определенный период времени. Поэтому желательно проводить анализ эффективности ТИ по нескольким топливным циклам. Показано, что показатели удельного расхода природного урана и среднего выгорания выгружаемых ТВС существенно зависят от наличия досрочно выгруженных ТВС, а также их расположения в активной зоне и количества отработанных топливных кампаний. Подчеркивается, что экономическая эффективность работы АЭС является совокупностью многих факторов, поэтому эффективность ТИ не может быть единственным показателем эффективности работы АЭС, а высокие показатели ТИ являются одним из важнейших составляющих этой эффективности

Management of the economy of subsidiaries of Electric Power Division of Rosatom S99

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Upravlenie ehkonomikoj dochernikh organizatsij diviziona #Left-Pointing Double Angle Quotation Mark#Ehлектроehnergeticheskij#Right-Pointing Double Angle Quotation Mark# Goskorporatsii #Left-Pointing Double Angle Quotation Mark#Rosatom#Right-Pointing Double Angle Quotation Mark#

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6 figs.

Rosehnergoatom (Ehлектроehnergeticheskij Divizion Rosatoma), Moscow (RU)

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INTERAGENCY COOPERATION; RUSSIAN FEDERATION; ROSATOM; MANAGEMENT; NUCLEAR POWER PLANTS; DECISION MAKING; PLANNING; FINANCING; COST; REPORTING REQUIREMENTS; EFFICIENCY

The consideration is given to the critical issues of Concern Rosenergoatom interaction with subsidiaries and the existing management system formed on the base corporate partnership. The management system of the Electric Power Division subsidiaries of the Concern provides on-line monitoring of key business processes within organizations. It is noted that functional cooperation is regulated; the unified management account formats are developed; the traditional functions of the Budget Committee of the holding are transformed into a decision-making venue according to the #Left-Pointing Double Angle Quotation Mark#here and now#Right-Pointing Double Angle Quotation Mark# principle; decision-making process on the distribution of profits is transformed in technology (dividend policy is linked to the investment strategy and financing sources monitoring system); subsidiaries performance monitoring is taken to the level of the Director-General of the Concern. The subsidiary management model depends more on the tasks set by holding, on

subsidiary productive role in the value chain of the final products of the holding and on holding interest to keep community of mutual corporate and economic interests

Рассмотрены ключевые проблемы взаимодействия Концерна Росэнергоатом с дочерними организациями (ДО) и действующая система управления, сформированная на основе корпоративного партнерства. Система управления ДО Электроэнергетического дивизиона Концерна обеспечивает оперативный мониторинг ключевых бизнес-процессов внутри организаций. Отмечается, что регламентирован порядок функционального взаимодействия; разработаны единые форматы управленческой отчетности; традиционные функции бюджетного комитета управляющей компании трансформированы в площадку принятия решений по принципу #Left-Pointing Double Angle Quotation Mark#здесь и сейчас#Right-Pointing Double Angle Quotation Mark#; процесс принятия решений о распределении прибыли переведен в технологию (дивидендная политика увязана с инвестиционной стратегией и системой контроля за источниками финансирования); контроль за деятельностью ДО выведен на уровень генерального директора Концерна. Модель управления ДО зависит в большей степени от поставленных задач управляющей компании, производственной роли ДО в цепочке создания стоимости конечных продуктов холдинга, и заинтересованности управляющей компании соблюдать общность взаимных корпоративных и экономических интересов

Justification of conditions of #Left-Pointing Double Angle Quotation Mark#Leak before break#Right-Pointing Double Angle Quotation Mark# concept application for Mochovce NPP units 3, 4

S21

Getman, A.F.; Kuz'min, D.A.; Kuz'michevskij, A.Yu.; Baumejster, P.

10th International scientific-technical conference #Left-Pointing Double Angle Quotation Mark#Safety, efficiency and economics of nuclear energy#Right-Pointing Double Angle Quotation Mark#

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Obosnovanie uslovij primeneniya kontseptsii #Left-Pointing Double Angle Quotation Mark#Tech' pered razrusheniem#Right-Pointing Double Angle Quotation Mark# dlya AEhS Mochovtse ehnergoblokov 3, 4 p. 733-737

(RU)

8 refs., 5 figs.

Rosehnergoatom (Ehлектроehnergeticheskij Divizion Rosatoma), Moscow (RU)
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 2016
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CZECH REPUBLIC; NUCLEAR POWER PLANTS; WWER TYPE REACTORS; REACTOR SAFETY; LEAK TESTING; LEAKS; REACTOR COOLING SYSTEMS; REACTOR OPERATION; CRACKS; EVALUATION; SENSITIVITY; WELDED JOINTS

Calculational-and-analytical and experimental researches towards safe operation of the main circulating pipeline (Dn500) (MCP) and surge line (Dn200) (SL) of WWER-440 reactor of Mochovce NPP units 3, 4

are carried out. The researches are done with account for the actual state of the pipelines, including their evaluation, as well as the assessment of the forthcoming operation conditions, maximum design earthquake mode and stratification mode for SL. It is shown that safe operation of MCP and SL is ensured in full scale for welds of these pipelines and for the necessary operation modes. It is determined minimum sensitivities for all MCP $Q_s = 6$ l/min necessary for leak detection through stable through-thickness cracks in pipelines, which are considerably more than minimum permissible sensitivities accepted in international practice. It is recommended to install leakage control systems ensuring sensitivity of MCP - 6, of SL - 4.3 l/min and to use minimum two independent leakage control systems within the #Left-Pointing Double Angle Quotation Mark#Leak before break#Right-Pointing Double Angle Quotation Mark# concept framework

Выполнены расчетно-аналитические и экспериментальные исследования для обеспечения безопасности эксплуатации главных циркуляционных трубопроводов (Ду500) (ГЦТ) и дыхательного трубопровода (Ду200) (ДТ) реакторной установки ВВЭР-440 АЭС Моховце энергоблока 3, 4. Исследования выполнены с учетом фактического состояния трубопроводов, включая их оценку, а также оценку условий предстоящей эксплуатации, режим максимальных расчетных землетрясений и режим стратификации для ДТ. Показано, что безопасность эксплуатации ГЦТ и ДТ обеспечивается в полном объеме для сварных соединений указанных трубопроводов и для необходимых режимов эксплуатации. Определены минимальные чувствительности для всех ГЦТ $Q_s = 6$ л/мин, необходимые для обнаружения утечек через устойчивые сквозные трещины в трубопроводах, которые существенно больше, чем минимально допустимые чувствительности, принятые в международной практике. Рекомендовано установить системы контроля течей, обеспечивающие чувствительность ГЦТ - 6, ДТ - 4,3 л/мин, и использовать минимум две независимые системы контроля течей в рамках концепции #Left-Pointing Double Angle Quotation Mark#Течь перед разрушением#Right-Pointing Double Angle Quotation Mark#

IAEA OSART mission as an instrument of improving operational safety of the Novovoronezh NPP

S21
Povarov, V.P.; Fedorov, A.I.; Shvarov, V.A.; Kolyagina, I.A. (Novovoronezhskaya AEhS, Novovoronezh (RU))
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Missiya OSART MAGATEh kak instrument povysheniya ehkspluatatsionnoj bezopasnosti Novovoronezhskoj AEhS

p. 737-740

(RU)

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NUCLEAR POWER PLANTS; REACTOR SAFETY; IAEA; REACTOR OPERATION; INSPECTION; RECOMMENDATIONS; PERSONNEL; TRAINING; MODIFICATIONS; EFFICIENCY; WORKING CONDITIONS; LABOR RELATIONS

In November 2015, there was an IAEA OSART mission on the Novovoronezh NPP aimed at consideration of the issues important to operational safety. The Novovoronezh NPP received an objective assessment of operational safety in terms of international standards and norms, international best practices. The experts identified areas where improvement was possible, it allowed to develop criteria for the further development. The large-scale personnel training in real conditions was carried out, as a result, skills of team work were acquired and the efficiency of team-work was increased significantly. A large amount of modernization works and reconstruction of production area and laboratories, tools updating, bringing into operation of new facilities, introduction of unique technologies were done at the Novovoronezh NPP within a framework of preparation of IAEA OSART mission. All these things allowed to improve the working conditions of personnel, to achieve higher levels of operation, to improve operational safety and efficiency of processes

В ноябре 2015 г. на Нововоронежской АЭС состоялась миссия OSART МАГАТЭ, направленная на рассмотрение вопросов, важных для эксплуатационной безопасности. Нововоронежская АЭС получила объективную оценку состояния эксплуатационной безопасности с точки зрения международных стандартов и норм, лучшей международной практики. Экспертами обозначены области, в которых возможно улучшение, это позволило выработать критерии для дальнейшего развития. Проведен масштабный обучающий тренинг персонала в реальных условиях, в итоге приобретены навыки командной работы и эффективность совместной работы значительно возросла. Выполненный в рамках подготовки к миссии ОСАРТ МАГАТЭ большой объем модернизационных работ, реконструкция производственных и лабораторных помещений, обновление инструментального парка, ввод в работу новых объектов, внедрение уникальных технологий позволило Нововоронежской АЭС улучшить условия работы персонала, достичь более высокого уровня эксплуатации, повысить эксплуатационную безопасность и эффективность процессов

View of the IAEA on international cooperation for NPPs safety

S99

Tarren, P. (Mezhdunarodnoe Agentstvo po Atomnoj Ehnergii, Vena (XA))

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Vzglyad MAGATEh na mezhdunarodnoe sotrudnichestvo v tselyakh obespecheniya bezopasnosti AEhS p. 740-746

(RU)

4 figs.

Rosehnergoatom (Ehлектроehnergeticheskij Divizion Rosatoma), Moscow (RU)

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IAEA; IAEA SAFEGUARDS; IAEA AGREEMENTS; INTERNATIONAL COOPERATION; REACTOR SAFETY; REACTOR OPERATION; RUSSIAN FEDERATION; INSPECTION

The review of the current status of the IAEA activities on safety consideration in the field of NPPs operation and on its evolution along with the development of the industry itself is given, as well as in response to major events. The interaction and support by the Russian Federation of the IAEA in improving safety of the Russian civil nuclear power reactor fleet is considered

Дается обзор текущего состояния деятельности МАГАТЭ по рассмотрению безопасности в области эксплуатации АЭС и того, как оно эволюционировало вместе с развитием самой отрасли, а также в ответ на крупные события. Рассмотрено взаимодействие и поддержка Российской Федерации МАГАТЭ в деле повышения состояния безопасности российского парка гражданских ядерно-энергетических реакторов

Analysis of RF, EU and USA laws applicable at the stage of NPP siting

S21

Luneva, E.V. (Filial OAO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark# po Realizatsii Kapital'nykh Proektov, Moscow (RU)); Soldatov, A.I. (AO #Left-Pointing Double Angle Quotation Mark#Atomproekt#Right-Pointing Double Angle Quotation Mark#, Sankt-Peterburg (RU))

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Analiz zakonodatel'stva RF, ES i SShA, primenimogo na eh tape vybora ploshchadki dlya stroitel'stva AS p. 746-750

(RU)

6 refs., 1 fig.

Rosehnergoatom (Ehлектроehnergeticheskij Divizion Rosatoma), Moscow (RU)

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Desyataya Mezhdunarodnaya nauchno-tekhnicheskaya konferentsiya #Left-Pointing Double Angle Quotation Mark#Bezopasnost', ehffektivnost' i ehkonomika atomnoj ehnergetiki#Right-Pointing Double Angle Quotation Mark#. Plenarnye i sektionnye doklady

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IAEA; REGULATORY GUIDES; USA; RUSSIAN FEDERATION; COMPARATIVE EVALUATIONS; ATOMIC ENERGY LAWS; NUCLEAR POWER PLANTS; SITE SELECTION

The detailed comparison of requirements of IAEA standards, Russian norms and regulations and USA regulatory documents for nuclear plants (NP) siting is carried out. It is noted that in Russian normative documents and USA regulatory documents there are quite comparable and inherently corresponding requirements. Existing minor differences are mainly determined by the individual formulations of requirements and terminology used in them. It is stated that Russian normative documents related to the safe NP siting meet all modern standards and requirements, which are governed by special safety guides of IAEA and USA. It is concluded that, in spite of the differences in normative documents on NP siting, regulatory documents of the Russian Federation and USA meet IAEA safety requirements

Выполнено детальное сравнение требований стандартов МАГАТЭ, Российских норм и правил и регулирующих документов США по размещению площадок для строительства атомных станций (АС). Отмечается, что в Российских нормативных документах и регулирующих документах США содержатся вполне сравнимые и соответствующие по сути требования. Существующие незначительные различия в основном определяются отдельными формулировками требований и используемой в них терминологией. Констатируется, что Российские нормативные документы, связанные с безопасным размещением АС, отвечают всем современным нормам и требованиям, которые регулируются специальными руководствами по безопасности МАГАТЭ и США. Сделан вывод, что, несмотря на имеющиеся отличия в нормативных документах по оценке выбора площадок для АС, нормативные документы РФ и США соответствуют требованиям по безопасности МАГАТЭ

Incorrect operations of personnel: methods of analysis and prevention

S99

Stepanyuk, D.A. (Filial AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark# Leningradskaya Atomnaya Stantsiya, Sosnovyj Bor (RU))

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Nepravil'nye dejstviya personala: metody analiza i profilaktiki

p. 751-757

(RU)

18 refs., 5 figs., 2 tabs.

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RUSSIAN FEDERATION; NUCLEAR POWER PLANTS; PERSONNEL; HUMAN FACTORS; ACCIDENTS; ERRORS

The psychological analysis of incorrect actions of NPP personnel allows to understand more objectively the nature of incorrect algorithms of employees behaviour, and thus, to take measures aimed at modification of these algorithms. The consideration is given to Russian experience in analysis of incorrect actions of the personnel, methodology of analysis of wrong actions in civil aviation, foreign experience in analysis of the human factor in troubles at NPPs and the experience of psychological analysis of incorrect actions of personnel at Russian NPPs

Психологический анализ неправильных действий персонала АЭС позволяет более объективно понять природу неправильных алгоритмов поведения работников, а значит принять меры, направленные на изменение данных алгоритмов. Рассмотрен российский опыт анализа неправильных действий персонала, методология анализа неправильных действий в гражданской авиации, зарубежный опыт

анализа человеческого фактора при нарушениях на АЭС и опыт психологического анализа неправильных действий персонала на АЭС России

Training of specialists and professional advancement of nuclear industry workers in IATE NRNU MPhI

S96
Ajrapetova, N.G.; Saakyan, S.P.; Tkachenko, V.V. (Obninskij Inst. Atomnoj Ehnergetiki #Em Dash# Filial NIYaU MIFI, Obninsk (RU)); Kut'kov, V.A. (Nauchno-Issledovatel'skij Tsentr #Left-Pointing Double Angle Quotation Mark#Kurchatovskij Inst.#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))
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Podgotovka spetsialistov i povyshenie kvalifikatsii rabotnikov atomnoj otrasli v IATEh NIYaU MIFI p. 757-759 (RU)

Rosehnergoatom (Ehлектроehnergeticheskij Divizion Rosatom), Moscow (RU)
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NUCLEAR POWER PLANTS; PERSONNEL; EDUCATION; EDUCATIONAL FACILITIES; EDUCATIONAL TOOLS; TRAINING; RUSSIAN FEDERATION

Obninsk Institute for Nuclear Power Engineering (IATE) - a branch of National Research Nuclear University MPhI, is the only specialized higher educational institution in Russia and CIS, which carries out training of specialists in high technologies for enterprises and organizations of the nuclear industry, science and technology. In the IATE the concept of multilevel preparation of specialists with higher education is realized. Professional retraining of NPP specialists on discipline #Left Double Quotation Mark#NPP operation#Right Double Quotation Mark# has been carried out at the Institute since 1982. Since 2002 a new form of education #Em Dash# skill sustainment of headers and specialists of NPPs has been realized in compliance with industry normative and regulatory documents. High-quality specialists training, as well as professional advancement and professional retraining of nuclear industry personnel is provided by highly skilled IATE academic teaching staff, and good facilities and resources including block simulators of NPP different nuclear reactors

Обнинский институт атомной энергетики (ИАТЭ) - филиал Национального исследовательского ядерного университета МИФИ - является единственным в России и СНГ специализированным высшим учебным заведением, осуществляющим подготовку специалистов в области высоких технологий для предприятий и организаций ядерной энергетики, науки и техники. В ИАТЭ реализована концепция многоуровневой подготовки специалистов с высшим образованием. Профессиональная переподготовка работников атомных станций по направлению #Left Double Quotation Mark#Эксплуатация АЭС#Right Double Quotation Mark# проводится в Институте с 1982 г. С

2002 г. реализуется новая форма обучения - поддержание квалификации руководителей и специалистов АЭС, которая проводится в соответствии с отраслевыми нормативными и регламентирующими документами. Качественная подготовка специалистов, а также повышение квалификации и профессиональная переподготовка работников атомной отрасли обеспечивается высокой квалификацией профессорско-преподавательского коллектива ИАТЭ и основательной материально-технической базой, включая тренажеры блоков различных ядерных реакторов АЭС

New forms of personnel training for innovative NPP power units (evidence from BN-800 power unit)

S96

Tashlykov, O.L.; Shcheklein, S.E.; Karpenko, A.I.; Bel'tyukov, A.I. (Ural'skij Federal'nyj Univ., Ekaterinburg (RU)); Tuchkov, A.M.; Poluyaktov, S.A.; Khimchak, D.M. (Beloyarskaya AEhS, Zarechnyj (RU))

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Novye formy podgotovki personala dlya innovatsionnykh ehnergoblokov AEhS (na primere ehnergobloka BN-800)

p. 759-763

(RU)

8 refs., 5 figs.

Rosehnergoatom (Ehлектроehnergeticheskij Divizion Rosatoma), Moscow (RU)

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Quotation Mark#. Plenary and sectional papers

Desyataya Mezhdunarodnaya nauchno-tekhnicheskaya konferentsiya #Left-Pointing Double

Angle Quotation Mark#Bezopasnost', ehffektivnost' i ehkonomika atomnoj ehnergetiki#Right-

Pointing Double Angle Quotation Mark#. Plenarnye i sektionnye doklady

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NUCLEAR POWER PLANTS; BELOYARSK-3 REACTOR; EDUCATION; EDUCATIONAL FACILITIES; EDUCATIONAL TOOLS; TRAINING; REACTOR SIMULATORS; COMPUTERIZED SIMULATION; REGIONAL COOPERATION

The Department of Nuclear Power Plants and Renewables was established in the Ural Federal University in connection with the construction of the Beloyarsk NPP (BNPP). The construction of unit 3 with BN-600 reactor caused the necessity of graduates training for fast reactors operation. The uniqueness of fast reactor technology demanded a specific approach to specialists training and special facilities and resources, the development of which was held with the active support of the leadership of the BNPP and Concern Rosenergoatom. In the educational process the 3D model of power unit with BN-800 reactor and analytic BN-800 simulator are used. Long-term fruitful interaction between the Department and BNPP allows to improve significantly the efficiency and quality of staff training, to approach young specialists training to the requirements of the enterprise, which significantly reduces the period of adaptation. The close relationship between the University and the BNPP allows continuous correcting of the training according to the need changes with the help of the employers

Кафедра #Left-Pointing Double Angle Quotation Mark#Атомные станции и возобновляемые источники энергии#Right-Pointing Double Angle Quotation Mark# была основана в Уральском федеральном университете в связи со строительством Белоярской АЭС (БАЭС). Сооружение энергоблока #Numero Sign#3 с реактором БН-600 вызвало необходимость организации подготовки выпускников кафедры для эксплуатации быстрых реакторов. Уникальность технологии быстрых реакторов потребовала специфического подхода к подготовке специалистов и специальной материально-технической базы, создание которой проходило при активной поддержке руководства БАЭС и концерна Росэнергоатом. В учебном процессе используется 3D-модель энергоблока с реактором БН-800 и аналитический тренажер БН-800. Многолетнее плодотворное взаимодействие Кафедры с БАЭС позволяет значительно повысить эффективность и качество подготовки кадров, приблизить подготовку молодых специалистов к требованиям предприятия, что значительно сокращает период адаптации. Тесная связь между университетом и БАЭС позволяет непрерывно корректировать подготовку при изменении потребностей с помощью самих же работодателей

Development of bottom silt treatment technology for Tsimla reservoir remediation S54

Gulyaev, M.V. (Filial AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark# #Left-Pointing Double Angle Quotation Mark#Rostovskaya Atomnaya Stantsiya#Right-Pointing Double Angle Quotation Mark#, Volgodonsk (RU))

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Razrabotka tekhnologii pererabotki donnogo ila dlya ehkologicheskogo vosstanovleniya Tsimlyanskogo vodokhranilishcha

p. 763-765

(RU)

5 refs., 1 fig., 1 tab.

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatoma), Moscow (RU)

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WATER RESERVOIRS; NUCLEAR POWER PLANTS; FRESH WATER; SILT; CLEANING; FERTILIZERS; PRODUCTION; ECOLOGY; CONTROLLED AREAS

Tsimla reservoir is the only source of drinking water supply in Volgodonsk and technical water supply of enterprises of the city and the Rostov NPP. Now there is silting of the reservoir, resulting in environmental safety disorder. The scheme of bed-silt processing into fertilizer is suggested. SWOT-analysis of the proposed technology is carried out. It is shown that processed silt can be used in the production of ecologically clean fertilizers, fodder additives, additives for soil reclamation. Realization of the proposed technology allows to solve the problem of Tsimla reservoir silting and to get benefit from the lifted silt

Цимлянское водохранилище является единственным источником питьевого водоснабжения г. Волгодонска и технического водоснабжения предприятий города и Ростовской АЭС. В настоящее время происходит заиление водохранилища, что приводит к нарушению его экологической безопасности. Предложена схема переработки донного ила в удобрение. Проведен SWOT-анализ предлагаемой технологии. Показано, что переработанный донный ил можно использовать при производстве экологически чистых удобрений, кормовых добавок, добавок для рекультивации почв. Реализация предложенной технологии позволяет решить проблему заиления Цимлянского водохранилища, а также извлекать материальные выгоды из добываемого ила

Determination of possibility of MCP electric drive self-starting at short-time power outage S22

Tugov, A.S. (Filial AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark# Leningradskaya AEhS, Sosnovyj Bor (RU))

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Opreделение vozmozhnosti samozapuska ehlektroprivodov GTsN pri kratkovremennom sboe pitaniya p. 765-766

(RU)

4 refs., 3 figs., 1 tab.

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PUMPS; PRIMARY COOLANT CIRCUITS; CIRCULATING SYSTEMS; ELECTRIC MOTORS; START-UP; REACTOR COOLING SYSTEMS; NUCLEAR POWER PLANTS

Calculations are carried out to determine the possibility of self-starting of the main circulation pump electric drive using magnetic starter. In the case of a short sharp undervoltage or loss of voltage, this device allows to retain electric drive in work and ensure its self-starting after voltage restoration. It is shown that the minimum starting torque is reached (on hot water) at #approx =#900 rpm and the maximum possible time of power failure for self-loading is #approx =#3 s

Проведены расчеты для определения возможности самозапуска электропривода главного циркуляционного насоса при использовании магнитного пускателя. В случае кратковременного резкого понижения или исчезновения напряжения, это устройство дает возможность сохранить в работе электродвигатель и обеспечить его самозапуск при восстановлении напряжения. Показано, что минимальный пусковой момент достигается (на горячей воде) при #approx =#900 оборотах и максимально-возможное время сбоя питания (для осуществления самозапуска) #approx =#3 с

Level of the Smolensk NPP safety at present time

S21
Yurkov, M.V. (Smolenskoe RO MOOVK, Desnogorsk (RU))
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Uroven' radiatsionnoj bezopasnosti SAEhS na sovremennom ehtape
p. 766-768
(RU)
3 tabs.

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SMOLENSK-1 REACTOR; SMOLENSK-2 REACTOR; SMOLENSK-3 REACTOR; RADIATION PROTECTION; RADIATION MONITORING; REACTOR SAFETY; REACTOR PROTECTION SYSTEMS; CONTROLLED AREAS; ENVIRONMENT; PERSONNEL; POPULATIONS

The radiation monitoring system of the Smolensk NPP (SNPP) protects personnel, population and environment from radiation effects as at normal operation and in the case of possible accidents. The equipment of the process radiation monitoring system ensures detection of parameter deviations, defects and damages of equipment at early stages of development, thereby preventing the occurrence of accidents. Radiation monitoring is performed by upgraded automated radiation monitoring systems with smart detector blocks. On the SNPP the automated individual radiation dose monitoring system is implemented. According to the long-term observations in the vicinity of the SNPP there are no significant changes in radiation situation, it remains stable and meets the requirements of radiation safety

Созданная на Смоленской АЭС (САЭС) система радиационной безопасности надежно защищает персонал, население и объекты окружающей среды от воздействия радиации как при нормальной эксплуатации, так и при возможных авариях. Оборудование радиационного технологического контроля обеспечивает обнаружение отклонений параметров, дефекты и повреждения оборудования на ранних стадиях развития, тем самым предупреждая возникновение аварийных ситуаций. Радиационный контроль осуществляется модернизированными автоматизированными системами радиационного контроля с интеллектуальными блоками детектирования. На САЭС внедрена автоматизированная система индивидуального дозиметрического контроля. По данным многолетних наблюдений радиационная обстановка в районе расположения САЭС не претерпела существенных изменений, она остается стабильной и соответствует требованиям в области радиационной безопасности

Simulation of vibrating processes of WWER-type reactors

S21

Aksenov, K.V. (Leningradskaya AEhS-2, Sosnovyj Bor (RU))

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Modelirovanie vibratsionnykh protsessov reaktorov tipa VVEhR

p. 768-771

(RU)

5 figs.

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WWER TYPE REACTORS; MECHANICAL VIBRATIONS; REACTOR SAFETY; REACTOR COMPONENTS; REACTOR MONITORING SYSTEMS; ACOUSTIC MONITORING; MATHEMATICAL MODELS; COMPUTERIZED SIMULATION; REACTOR CHANNELS

The approach is suggested which allows to perform additional monitoring and control of vibration condition of reactor equipment on the base of analysis of the equipment vibration displacement trajectory using modern computing techniques and software tools, that will improve quality and reliability of the power unit operation. Data on vibration condition of reactor facility obtained by the use of mathematical simulation make it possible to estimate the effect of fixation stiffness of in-vessel core barrel and the change of vibrations constraining forces on the system vibration condition as well as to estimate the system stability and to determine parameters under which it will be disrupted

Предложен подход, позволяющий на основе анализа траектории виброперемещений оборудования с использованием современной вычислительной техники и специальных программных средств выполнять дополнительное наблюдение и контроль за вибрационным состоянием оборудования реактора, что повысит качество и надежность эксплуатации энергоблока. Полученные при помощи математического моделирования данные о вибрационном состоянии реакторной установки позволяют оценить влияние жесткости фиксации шахты внутрикорпусной и изменение характеристик вынуждающих вибрации сил на вибрационное состояние системы, а также оценить устойчивость системы и определить параметры, при которых она будет нарушена

Steam-turbine plants of NPP. Efficiency improvement

S42

Pirogov, A.A. (Leningradskaya AEhS, Sosnovyj Bor (RU))

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Paroturbinnye ustanovki AS. Povyshenie ehffektivnosti

p. 771-777

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9 figs., 4 tabs.

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NUCLEAR POWER PLANTS; TURBINES; TURBINE BLADES; LENGTH; EFFICIENCY; CAPACITY; COEFFICIENT OF PERFORMANCE; COMPUTERIZED SIMULATION; P CODES

The consideration is given to solution of the problem on choosing the optimal geometric parameters of turbine last stage for improving its technical and economic indices. It is shown that for the turbine K500-65/3000 optimal length of the last stage bucket, at which the stage will have the most effective operation, is within the length interval from 1150 to 1200 mm. The calculation was carried out using the program Prot. It is noted that for more precise determination of value of the last stage bucket optimal length it is necessary to carry out the calculated analysis using the factory geometrical and physical characteristics of the turbine last stage for a concrete NPP

Рассматривается решение задачи по выбору оптимальных геометрических параметров последней ступени турбины для повышения ее технико-экономических показателей. Показано, что для турбины К-500-65/3000 оптимальная длина рабочей лопатки последней ступени, при которой ступень будет работать наиболее эффективно, находится в интервале длин от 1150 до 1200 мм. Расчет проводился с помощью программы #Left-Pointing Double Angle Quotation Mark#Прот#Right-Pointing Double Angle Quotation Mark#. Отмечается, что для более точного определения значения оптимальной длины рабочей лопатки необходимо провести расчетное исследование с использованием заводских геометрических и физических характеристик последней ступени турбины для конкретной АЭС

Practical realization of #Left-Pointing Double Angle Quotation Mark#Safety culture#Right-Pointing Double Angle Quotation Mark# conception by operating organization - guaranty of exception of repetition of events caused accidents on the Chernobyl and the Fukushima NPPs

S22

Poltarakov, G.I. (Leningradskoe Otdelenie MOOVK, Sosnovyj Bor (RU))

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Prakticheskaya realizatsiya kontseptsii #Left-Pointing Double Angle Quotation Mark#Kul'tury bezopasnosti#Right-Pointing Double Angle Quotation Mark# ehkspluatiruyushchej organizatsiej - garantiya isklyucheniya povtoreniya sobytij, privedshikh k avariyam na ChAEhS i AEhS #Left-Pointing Double Angle Quotation Mark#Fukusima#Right-Pointing Double Angle Quotation Mark#
p. 777-781
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NUCLEAR POWER PLANTS; REACTOR ACCIDENTS; THREE MILE ISLAND-1 REACTOR; CHERNOBYLSK-4 REACTOR; FUKUSHIMA DAIICHI NUCLEAR POWER STATION; REACTOR SAFETY; SAFETY CULTURE; HUMAN FACTORS; BEHAVIOR; REACTOR OPERATORS; COMPARATIVE EVALUATIONS

The safety culture provision is an integral part of the human factor effect on the NPP safety. The causes of accidents, including the human factor, at the Three Mile Island, Chernobyl and Fukushima NPPs are under consideration, as well as ways to enhance safety through the example of the Leningrad NPP

Обеспечение культуры безопасности является неотъемлемой частью влияния человеческого фактора на безопасность АЭС. Рассмотрены причины аварий, в том числе человеческого фактора, на АЭС Три Майл Айленд, Фукусима-1 и Чернобыльской АЭС, а также пути повышения безопасности на примере Ленинградской АЭС

Investigation of defect accumulation dynamics of graphite crystal structure of ADE reactor S36

Sklyarov, A.A. (Leningradskaya AEhS, Sosnovyj Bor (RU))

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Issledovanie dinamiki nakopleniya defektov kristallicheskoj struktury grafita reaktora ADEh

p. 782-787

(RU)

32 refs., 10 figs., 2 tabs.

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GRAPHITE MODERATED REACTORS; GRAPHITE; CRYSTAL DEFECTS; NEUTRON FLUX;
 PHYSICAL RADIATION EFFECTS; WIGNER EFFECT; COMPUTERIZED SIMULATION; ITERATIVE
 METHODS; TEMPERATURE DEPENDENCE

Graphite usage as a moderator in ADE reactors is determined by its properties, namely, by the small neutron absorption cross-section and high moderating efficiency. For the calculation of neutron flux spectrum an iterative method is used. The dependence of the stored Wigner energy in graphite on operation time is determined. It is noted that graphite re-irradiation has no effect on steady level of stored Wigner energy. This level is determined only by the core neutronics and irradiation temperature of graphite. It is shown that the selected calculation model, multigroup parameters and approximation dependences of the constant of point defects recombination on graphite temperature describe adequately the process of defect formation in graphite crystal structure under irradiation

Применение графита, в качестве замедлителя в реакторах АДЭ, обуславливается его свойствами, а именно малым сечением поглощения нейтронов и высокой замедляющей способностью. В работе для расчета спектра потока нейтронов используется итерационный метод. Определена зависимость накопления запасенной энергии Вигнера в графите от времени эксплуатации. Отмечается, что на уровень стационара запасенной энергии Вигнера повторное облучение графита не влияет. Этот уровень определяется только нейтронно-физическими параметрами активной зоны и температурой облучения графита. Показано, что выбранная расчетная модель, полученные в ходе работы многогрупповые параметры и аппроксимационные зависимости постоянной рекомбинации точечных дефектов от температуры графита удовлетворительно описывают процесс дефектообразования в кристаллической структуре графита при облучении

Software tool for forming fueling schemes and visualization of reactor core, its control systems Visual Reactor Core Control (VRCC)

S21

Legkikh, R.Yu. (Filial AO #Left-Pointing Double Angle Quotation Mark#Kontsern Rosehnergoatom#Right-Pointing Double Angle Quotation Mark# Leningradskaya Atomnaya Stantsiya, Sosnovyj Bor (RU))

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Desyataya Mezhdunarodnaya nauchno-tehnicheskaya konferentsiya #Left-Pointing Double Angle Quotation Mark#Bezopasnost', ehffektivnost' i ehkonomika atomnoj ehnergetiki#Right-Pointing Double Angle Quotation Mark#

Programmnoe sredstvo formirovaniya kartogramm zagruzki i vizualizatsii aktivnoj zony, sistem ee kontrolya Visual Reactor Core Control (VRCC)

p. 787-790

(RU)

4 figs.

Rosehnergoatom (Ehlektroehnergeticheskij Divizion Rosatoma), Moscow (RU)

10th International scientific-technical conference #Left-Pointing Double Angle Quotation Mark#Safety, efficiency and economics of nuclear energy#Right-Pointing Double Angle Quotation Mark#. Plenary and sectional papers

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REACTOR CORES; NEUTRONS; COMPUTER CODES; REACTOR FUELING; REACTOR MONITORING SYSTEMS; REACTOR OPERATORS; ERRORS

For troubleshooting of disclosure of information in the form of core fueling schemes in neutronics album, CASCADE software package and #Left Double Quotation Mark#Reactor simulator#Right Double Quotation Mark# code a software tool (ST) VRCC (Visual Reactor Core Control) is developed. This software tool is created in development environment Visual Basic for Applications using Basic programming language. It is a part of the professional versions of Microsoft Office. ST VRCC consists of four independent software modules: Simulation area, Nuclear fuel, NFCE (Neutron Flux Control Equipment)_IRMS (In-Reactor Monitoring System) and Parameter. Use of ST VRCC allows to minimize the probability of human error during core fueling and processing of measured and calculated core parameters

Для устранения недостатков предоставления информации в форме картограмм активной зоны в альбоме нейтронно-физических характеристик, программном комплексе КАСКАД и программе #Left-Pointing Double Angle Quotation Mark#Имитатор реактора#Right-Pointing Double Angle Quotation Mark# разработано программное средство (ПС) VRCC - Visual Reactor Core Control (Визуализация, Активная зона реактора, Контроль). Данное программное средство создано в среде разработки Visual Basic for Applications на языке программирования Basic. Оно входит в состав профессиональных версий Microsoft Office. ПС VRCC включает в себя четыре независимых программных модуля: Имитационная зона, Ядерное топливо, АКНП (Аппаратура Контроля Нейтронного Потoka)-СВРК (Система Внутрореакторного Контроля) и Параметр. Использование ПС VRCC позволяет свести к минимуму вероятность ошибки персонала при выполнении работ, связанных с загрузкой активной зоны и проведением обработки измеренных и расчетных параметров активной зоны

Efficiency of radiation protection of population and environment during NPP operation in Russia

S54

Safonov, I.S. (FGU NTTs YaRB Rostekhnadzora, Moscow (RU)); Teplitskij, V.A. (Moskovskoe RO MOOVK, Moscow (RU))

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Ehffektivnost' radiatsionnoj zashchity naseleniya i okruzhayushchej sredy pri ehkspluatatsii AEhS Rossii p. 790-797

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NUCLEAR POWER PLANTS; RUSSIAN FEDERATION; CONTROLLED AREAS; RADIATION PROTECTION; RADIATION PROTECTION LAWS; SAFETY STANDARDS; POPULATIONS; ENVIRONMENT; LIQUID WASTES; RADIOACTIVE AEROSOLS; RADIATION DOSES; RADIOACTIVE WASTE MANAGEMENT

The consideration is given to radiation protection condition of population and environment from gas-aerosol effluents, liquid radioactive discharges, as well as radioactive waste management at NPPs in 2011-2015. Results of radiation monitoring are compared with standards regulated by federal rules and regulations in the field of atomic energy. It is shown that while meeting set values of permissible effluents and discharges, as well as the requirements for NPP radioactive waste management, the radiation dose of persons from critical groups of population according to each of these factors in the course of normal operation does not exceed the established quota of 10 μ Sv/year. Radiation risk to population during NPP normal operation in this case is less than 10^{-6} year $^{-1}$ and is certainly acceptable

Рассматривается состояние радиационной защиты населения и окружающей среды от газоаэрозольных выбросов, жидких радиоактивных сбросов, а также обращения с радиоактивными отходами на АЭС в 2011-2015 гг. Результаты радиационного контроля сравниваются с нормативами, регламентированными Федеральными нормами и правилами в области использования атомной энергии. Показано, что при соблюдении установленных значений допустимых выбросов и сбросов, а также требований по обращению с радиоактивными отходами на АЭС, доза облучения лиц из критической группы населения по каждому из этих факторов при нормальной эксплуатации не превысит установленной квоты 10 мкЗв/год. Радиационный риск для населения при нормальной эксплуатации АЭС в этом случае составляет менее 10^{-6} год $^{-1}$ и является, безусловно, приемлемым

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LEADING ABSTRACT; MEETINGS; COMPOSITE MATERIALS; THERMODYNAMIC PROPERTIES; SUPERCONDUCTING COMPOSITES; HEAT RESISTANT MATERIALS; MAGNETIC MATERIALS; SOLIDS; REVIEWS

The proceedings of the All-Russian Conference #Left Double Quotation Mark#Solid State Chemistry and Functional Materials - 2016#Right Double Quotation Mark#, XI Seminar #Left Double Quotation Mark#Thermodynamics and Materials Science#Right Double Quotation Mark#, held September 20-23, 2016, in Ekaterinburg are presented. The collection includes materials from four sections of the conference: - Inorganic functional materials and composites, - Thermodynamics and materials science, - Ultra- and nanodispersed materials, low-dimensional systems, - Reactivity of solids in heterogeneous systems. Materials reflect the current state of fundamental research in the main areas of solid state chemistry, reviews and original results on directions of synthesis and functional properties of refractory materials, ion-electronic conductors, oxide optically active and magnetic materials, multiferroics, photocatalysts, sorbents. Current problems of thermodynamics and reactivity of high-temperature systems are under consideration

Представлены труды Всероссийской конференции #Left Double Quotation Mark#Химия твердого тела и функциональные материалы - 2016#Right Double Quotation Mark#, XI семинара #Left Double Quotation Mark#Термодинамика и материаловедение#Right Double Quotation Mark#, прошедших 20-23 сентября 2016 г. в Екатеринбурге. Сборник включает материалы четырех секций конференции: - Неорганические функциональные материалы и композиты, - Термодинамика и материаловедение, - Ультра- и нанодисперсные материалы, низкоразмерные системы, - Реакционная способность твердых тел в гетерогенных системах. Материалы отражают современное состояние фундаментальных исследований в основных направлениях химии твердого тела, обзоры и оригинальные результаты по направлениям синтеза и функциональных свойств тугоплавких материалов, ионно-электронных проводников, оксидных оптически активных и магнитных материалов, мультиферроиков, фотокатализаторов, сорбентов. Рассмотрены актуальные вопросы термодинамики и реакционной способности высокотемпературных систем

Synthesis and physico-chemical study of solid solutions in the system Cu₂Se-Ag₂Se-GeSe₂

S37
Abbasova, V.A.; Alverdiev, I.Dzh.; Gurbanov, G.B.; Yusibov, Yu.A. (Gyandzhinskij Gosudarstvennyj Univ., Gyandzha (AZ)); Mashadiyeva, L.F. (Inst. Kataliza i Neorganicheskoy Khimii NANA, Baku (AZ))

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Sintez i fiziko-khimicheskoe issledovanie tverdykh rastvorov v sisteme Cu₂Se-Ag₂Se-GeSe₂

p. 3-4

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3 refs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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COPPER SELENIDES; SILVER SELENIDES; GERMANIUM SELENIDES; CHEMICAL COMPOSITION; SOLID SOLUTIONS; PHASE DIAGRAMS; ELECTRIC CONDUCTORS; EQUILIBRIUM; TEMPERATURE RANGE 0400-1000 K

The role of non-autonomous states in structural transformations of nanocrystals

S77

Al'myasheva, O.V. (SPbGEhTU #Left-Pointing Double Angle Quotation Mark#LEhTI#Right-Pointing Double Angle Quotation Mark#, Sankt-Peterburg (RU)); Vasilevskaya, A.K.; Gusarov, V.V. (FTI im. A.F.Ioffe RAN, Sankt-Peterburg (RU))

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Rol' neavtonomnykh sostoyanij v strukturnykh prevrashcheniyakh nanokristallov

p. 7

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NANOSTRUCTURES; CRYSTALS; TITANIUM OXIDES; ALUMINIUM OXIDES; IRON OXIDES;
ZIRCONIUM OXIDES; PARTICLE SIZE; CRYSTAL-PHASE TRANSFORMATIONS

The role of crystal-nucleating centers in formation of ferrites with spinels structure in hydrothermal conditions

S77

Al'myasheva, O.V. (SPbGEhTU #Left-Pointing Double Angle Quotation Mark#LEhTI#Right-Pointing Double Angle Quotation Mark#, Sankt-Peterburg (RU)); Komlev, A.A. (Royal Inst. of Technology, Stockholm (SE))

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Rol' zarodysheobrazuyushchikh tsentrov v formirovanii ferritov so strukturoj shpineli v gidrotermal'nykh usloviyakh

p. 8

(RU)

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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NANOSTRUCTURES; CRYSTALS; FERRITES; COBALT COMPOUNDS; MAGNESIUM COMPOUNDS; CRYSTAL STRUCTURE; COBALT HYDROXIDES; MAGNESIUM HYDROXIDES; IRON HYDROXIDES; COPRECIPITATION; POWDERS; NUCLEATION

High-melting compounds - new approaches and results

S37

Andrievskij, R.A. (IPKhF RAN, Chernogolovka Moskovskoj Obl. (RU))

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Tugoplavkie soedineniya #En Dash# novye podkhody i rezul'taty

p. 12

(RU)

3 refs.

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MELTING POINTS; TRANSITION ELEMENT COMPOUNDS; CHEMICAL COMPOSITION; ENTROPY; APPROPRIATE TECHNOLOGY; CHEMICAL PREPARATION; MOLECULAR DYNAMICS METHOD; DENSITY FUNCTIONAL METHOD; COMPUTERIZED SIMULATION; SOLIDS

Obtaining and characteristics of complex oxide materials based on bismuth columnar molybdates

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Arishina, K.V.; Mikhajlovskaya, Z.A.; Buyanova, E.S. (UrFU, Ekaterinburg (RU)); Petrova, S.A. (IMET UrO RAN, Ekaterinburg (RU))

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Poluchenie i kharakteristiki slozhnooksidnykh materialov na osnove kolonchatykh molibdatov vismuta

p. 13-15

(RU)

4 figs.

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MOLYBDATES; BISMUTH COMPOUNDS; IONIC CONDUCTIVITY; CHEMICAL COMPOSITION; CATALYTIC EFFECTS; SOLID SOLUTIONS; CRYSTAL DOPING; LATTICE PARAMETERS; CERAMICS; POWDERS; ELECTRIC CONDUCTIVITY

Synthesis, crystal structure and magnetic properties of new perovskite-like manganites **S37**

Bazuev, G.V.; Tyutyunnik, A.P.; Tarakina, N.V. (IKhTT UrO RAN, Ekaterinburg (RU))

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Sintez, kristallicheskaya struktura i magnitnye svoystva novykh perovskitopodobnykh manganitov
p. 16-17

(RU)

4 refs., 3 figs.

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STRONTIUM COMPOUNDS; MANGANESE COMPOUNDS; OXYGEN COMPOUNDS; MAGNETIC PROPERTIES; SOLID SOLUTIONS; CHEMICAL COMPOSITION; LITHIUM COMPOUNDS; CHEMICAL PREPARATION

Unusual, electrochemically active heterostructures with solid hydroxide electrolytes **S37**

Bajkov, Yu.M.; Nikulin, E.I. (FTI im. A.F. Ioffe RAN, Sankt-Peterburg (RU))

All-Russian Conference #Left-Pointing Double Angle Quotation Mark#Solid state chemistry and functional materials - 2016#Right-Pointing Double Angle Quotation Mark#, XI Seminar #Left-Pointing Double Angle Quotation Mark#Thermodynamics and materials science#Right-Pointing Double Angle Quotation Mark#

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Neobychnye, ehlektrokhimicheski aktivnye geterostruktury s tverdymi gidroksidnymi ehlektrolitami p. 18-19

(RU)

5 refs., 1 fig.

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368 p.

CESIUM COMPOUNDS; POTASSIUM HYDROXIDES; SOLID ELECTROLYTES; IONIC CRYSTALS; TEMPERATURE RANGE 0400-1000 K; HYDROGEN ISOTOPES; CHEMICAL COMPOSITION

Solid eutectics and crystalline hydrates of alkali metal hydroxides for conversion and storage of energy: isotope methods for studying texture and chemical activity **S37**

Bajkov, Yu.M.; Nikulin, E.I.; Egorov, V.M. (FTI im. A.F. Ioffe RAN, Sankt-Peterburg (RU))

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Tverdye ehvtektiki i kristallogidraty gidroksidov shchelochnykh metallov dlya konversii i khraneniya ehnergii: izotopnye metody izucheniya tekstury i khimicheskoy aktivnosti

p. 20-22

(RU)

5 refs., 2 figs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

SODIUM HYDROXIDES; POTASSIUM HYDROXIDES; EUTECTICS; ISOTOPIC EXCHANGE; LABELLING; ISOTOPE APPLICATIONS; ISOTOPE EFFECTS; SOLIDS; ELECTRIC CONDUCTIVITY

Post-synthetic modification of inorganic oxides: features of physicochemical procedures and analysis of the results, the problems of thermodynamic justification

S37

Bajkov, Yu.M.; Melekh, B.T.; Kompan, M.E. (FTI im. A.F. Ioffe RAN, Sankt-Peterburg (RU)); Gorelov, V.P. (IVTEh UrO RAN, Ekaterinburg (RU)); Aksenova, T.I.; Khromushin, I.V. (IYaF NYaTs RK, Almaty (KZ))

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Post-sinteticheskaya modifikatsiya neorganicheskikh oksidov: osobennosti fiziko-khimicheskikh protsedur i analiza rezul'tatov, problemy termodinamicheskogo obosnovaniya

p. 23-24

(RU)

Oxides; Zr, La, Sr, Mn, Ce, Pr, Y, Ba, Cu

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

OXIDES; PHASE DIAGRAMS; THERMODYNAMICS; CHEMICAL COMPOSITION; CHEMICAL PREPARATION; REVIEWS; MELTING; SOLIDS; ANNEALING

The crystal structure and the spectral-luminescent properties of

Li₇La₃Hf₂O₁₂:Ce³⁺

S37

Baklanova, Ya.V.; Maksimova, L.G.; Lipina, O.A.; Leonidov, I.I.; Denisova, T.A.; Tyutyunnik, A.P.; Zubkov, V.G. (IKhTT UrO RAN, Ekaterinburg (RU)); Shi, Q.F.; Ivanovskikh, K.V. (FTI UrFU, Ekaterinburg (RU))

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Kristallicheskaya struktura i spektral'no-lyuminescentnye svoystva Li₇La₃Hf₂O₁₂:Ce³⁺

p. 28

(RU)

3 refs.

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368 p.

HAFNIUM OXIDES; LANTHANUM OXIDES; LITHIUM CARBONATES; CERIUM NITRATES; CHEMICAL PREPARATION; CHEMICAL COMPOSITION; CRYSTAL STRUCTURE; HEAT TREATMENTS

Magnetic susceptibility of perovskite-like oxides SrVO₃ and BaVO₃: theory and experiment

S37

Bannikov, V.V. (IKhTT UrO RAN, Ekaterinburg (RU))

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Magnitnaya vospriimchivost' perovskitopodobnykh oksidov SrVO₃ i BaVO₃: teoriya i ehksperiment p. 29-30

(RU)

5 refs., 1 fig.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

STRONTIUM OXIDES; VANADIUM OXIDES; BARIUM OXIDES; CHEMICAL COMPOSITION; MAGNETIC SUSCEPTIBILITY; PARAMAGNETISM; MAGNETIC MOMENTS

Luminescence of VO₄³⁻- centers in LiMgPO₄ and LiMgVO₄

S37

Barykina, Yu.A. (IKhTT UrO RAN, Ekaterinburg (RU)); UrFU im. Pervogo Prezidenta Rossii B.N. El'tsina, Ekaterinburg (RU)); Medvedeva, N.I.; Zubkov, V.G.; Kellerman, D.G. (IKhTT UrO RAN, Ekaterinburg (RU))

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Lyuminestsentsiya VO₄³⁻- tsentrov v LiMgPO₄ i LiMgVO₄

p. 31-32

(RU)

3 refs., 3 figs.

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LITHIUM PHOSPHATES; MAGNESIUM PHOSPHATES; VANADATES; CHEMICAL COMPOSITION; LUMINESCENCE; OPTICAL PROPERTIES; EMISSION SPECTRA

Structural classification of carbon compounds

S36

Belenkov, E.A.; Greshnyakov, V.A. (ChGU, Chelyabinsk (RU))

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Strukturnaya klassifikatsiya uglerodnykh soedinenij

p. 41-43
(RU)
7 refs., 1 tab.

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368 p.

GRAPHENE; CARBON COMPOUNDS; CHEMICAL BONDS; CARBON NANOTUBES; COVALENCE;
CRYSTAL STRUCTURE; CLASSIFICATION

Computer simulation of the electronic structure of graphite layers

S36

Belenkova, T.E.; Chernov, V.M. (ChGU, Chelyabinsk (RU))

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Komp'yuternoe modelirovanie ehlektronnoj struktury grafिनovykh sloev

p. 44-46

(RU)

6 refs., 1 fig.

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 368 p.

GRAPHENE; COMPUTERIZED SIMULATION; ELECTRONIC STRUCTURE; CARBON COMPOUNDS; CHEMICAL BONDS; NANOSTRUCTURES; DENSITY FUNCTIONAL METHOD

Surface activity of $\text{CaV}_0._.5\text{Mo}_0._.5\text{O}_3._. - \#delta\#$

S37

Belyakov, S.A.; Shkerin, S.N. (IVTEh UrO RAN, Ekaterinburg (RU))

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Poverkhnostnaya aktivnost' $\text{CaV}_0._.5\text{Mo}_0._.5\text{O}_3._. - \#delta\#$

p. 47-48

(RU)

4 refs., 1 fig.

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368 p.

MOLYBDATES; VANADATES; CALCIUM COMPOUNDS; CHEMICAL COMPOSITION; SURFACE PROPERTIES; ANNEALING; LASER RADIATION; CHEMICAL ACTIVATION

The effect of substitution of titanium in $\text{CaV}_0._.5\text{Mo}_0._.5\text{O}_3._. - \#delta\#$ on its physicochemical properties

S37

Belyakov, S.A.; Shkerin, S.N.; Kuz'min, A.V. (IVTEh UrO RAN, Ekaterinburg (RU))

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Vliyanie zameshcheniya titanom v $\text{CaV}_{0.5}\text{Mo}_{0.5}\text{O}_3$ - Δ na ego fiziko-khimicheskie svoystva p. 49-50

(RU)

4 refs., 1 fig.

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CALCIUM OXIDES; VANADIUM OXIDES; MOLYBDENUM OXIDES; TITANIUM OXIDES; CHEMICAL COMPOSITION; SOLID OXIDE FUEL CELLS; ELECTRIC CONDUCTIVITY

Synthesis of composites based on aluminum powders

S36

Bibanaeva, S.A.; Skachkov, V.M.; Latosh, I.N. (IKhTT UrO RAN, Ekaterinburg (RU))

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Sintez kompozitov na osnove poroshkov alyuminiya

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(RU)

1 ref., 1 fig.

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368 p.

CERMETS; ALUMINIUM OXIDES; ALUMINIUM; POWDERS; SYNTHESIS; POROSITY; CALCINATION

Porous materials based on aluminum powders with small additions of barium

S36

Bibanaeva, S.A.; Skachkov, V.M.; Latosh, I.N. (IKhTT UrO RAN, Ekaterinburg (RU))

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Poristye materialy na osnove poroshkov alyuminiya s malymi dobavkami bariya

p. 55

(RU)

2 refs., 1 tab.

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POWDERS; POROUS MATERIALS; ALUMINIUM ALLOYS; BARIUM ALLOYS;
MICROHARDNESS; SURFACE AREA; TEMPERATURE RANGE 1000-4000 K

NMR study of the sodium ions mobility in complex molybdates Na₉Mo (EO₄)₆ (E = Al, In, Sc)

S37

Buzlukov, A.L.; Arapova, I.Yu. (IFM UrO RAN, Ekaterinburg (RU)); Denisova, T.A.; Baklanova, Ya.V. (IKhTT UrO RAN, Ekaterinburg (RU)); Savina, A.A.; Khajkina, E.G. (BIP SO RAN, Ulan-Udeh (RU))

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Issledovanie metodom YaMR podvizhnosti ionov natriya v slozhnykh molibdatakh Na₉Mo(EhO₄)₆ (Eh=Al, In, Sc)

p. 60-62

(RU)

4 figs.

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MOLYBDATES; SODIUM COMPOUNDS; NMR SPECTRA; MAGNETIZATION; DIFFUSION;
SODIUM IONS; ACTIVATION ENERGY; SPIN-LATTICE RELAXATION; INDIUM COMPOUNDS;
TEMPERATURE RANGE 0273-0400 K; TEMPERATURE RANGE 0400-1000 K; TEMPERATURE
DEPENDENCE; ALUMINIUM COMPOUNDS

The state of iron atoms in solid solutions Bi₃Nb_{1-x}Fe_xO_{7-δ}

S37

Butin, V.A.; Zhuk, N.A. (Syktyvskarskij Gosudarstvennyj Univ. im. Pitirima Sorokina, Syktyvkar (RU)); Chezhina, N.V. (Sankt-Peterburgskij Gosudarstvennyj Univ., Sankt-Peterburg (RU)); Lyutoev, V.P.; Makeev, B.A.; Shevchuk, S.S. (Inst. Geologii Komi NTs UrO RAN, Syktyvkar (RU)); Nizovtsev, A.N. (Inst. Biologii Komi NTs UrO RAN, Syktyvkar (RU))

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Sostoyanie atomov zheleza v tverdykh rastvorakh Bi₃Nb_{1-x}Fe_xO_{7-δ}

p. 63

(RU)

5 refs.

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NIOBATES; BISMUTH COMPOUNDS; CERAMICS; NIOBIUM COMPOUNDS; CHEMICAL COMPOSITION; CUBIC LATTICES; SOLID SOLUTIONS

Compounds Ca₂La_{7-x}Er_xYb_xEu₀₋₆Ge_{60-2-6-δ} and their use as new upconversion materials

S37

Vasin, A.A. (IKhTT UrO RAN, Ekaterinburg (RU)); UrFU im. B.N. El'tsina, Ekaterinburg (RU)); Zuev, M.G.; Baklanova, I.V.; Akashev, L.A. (IKhTT UrO RAN, Ekaterinburg (RU)); Vovkotrub, Eh.G. (IVTEh UrO RAN, Ekaterinburg (RU)); Zayats, S.V. (IEhF UrO RAN, Ekaterinburg (RU))

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Soedineniya Ca₂La₇.₄-₂xEr_xYb_xEu₀.₆Ge₆O₂6 - #delta# i ikh ispol'zovanie v kachestve novykh apkonversionnykh materialov

p. 64-66

(RU)

1 ref., 3 figs.

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SOLID SOLUTIONS; CALIFORNIUM OXIDES; ERBIUM OXIDES; EUROPIUM OXIDES; LANTHANUM OXIDES; YTTERBIUM OXIDES; CERAMICS; CHEMICAL COMPOSITION; INORGANIC PHOSPHORS; HEXAGONAL LATTICES; INFRARED SPECTRA; ENERGY TRANSFER

Investigation of osmium chlorination products in the presence of divalent metal chlorides by Raman spectroscopy

S37

Vovkotrub, Eh.G.; Salyulev, A.B. (IVTEh UrO RAN, Ekaterinburg (RU))

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Issledovanie metodom spektroskopii KRS produktov khlorirovaniya osmiya v prisutstvii khloridov dvukhvalentnykh metallov

p. 67-68

(RU)

2 refs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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 368 p.

OSMIUM COMPLEXES; CHEMICAL COMPOSITION; RAMAN SPECTRA; CHLORINATION;
 STRONTIUM CHLORIDES; SMELTING

Defect structure and electrotransport properties of complex oxide

$\text{La}_{1-x}\text{Sr}_x\text{Ni}_y\text{Fe}_{1-y}\text{O}_{4+\delta}$

S37

Gilev, A.R.; Kiselev, E.A.; Cherepanov, V.A. (UrFU im. Pervogo Prezidenta Rossii B.N. El'tsina, Ekaterinburg (RU))

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Defektnaya struktura i ehlektrotransportnye svoystva slozhnogo oksida

$\text{La}_{1-x}\text{Sr}_x\text{Ni}_y\text{Fe}_{1-y}\text{O}_{4+\delta}$

p. 75-77

(RU)

2 refs.

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368 p.

LANTHANUM OXIDES; IRON OXIDES; NICKEL OXIDES; STRONTIUM OXIDES; CHEMICAL COMPOSITION; CRYSTAL DEFECTS; CHEMICAL PREPARATION; CERAMICS; ELECTRIC CONDUCTIVITY; SEEBECK EFFECT

Synthesis and electrophysical properties of (Pr_{1-x}La_x)₂-ySr_yNi_{1-z}Cu_zO₄ (x=0.0-1; y=0.0-0.2, z=0.0-1)

S37

Gil'derman, V.K.; Antonov, B.D. (IVTEh UrO RAN, Ekaterinburg (RU))

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Sintez i ehlektrofizicheskie svoystva (Pr_{1-x}La_x)₂-ySr_yNi_{1-z}Cu_zO₄ (x=0.0-1; y=0.0-0.2, z=0.0-1)

p. 78-80

(RU)

3 refs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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CUBIC LATTICES; CERAMICS; CHEMICAL PREPARATION; PRASEODYMIUM COMPOUNDS; STRONTIUM COMPOUNDS; NICKEL COMPOUNDS; COPPER COMPOUNDS; OXYGEN COMPOUNDS; CHEMICAL COMPOSITION; ELECTRIC CONDUCTIVITY; ACTIVATION ENERGY

Glycine-nitrate synthesis of nanopowders GdFeO₃

S77

Gimaztdinova, M.M. (SPbGTI (TU), Sankt-Peterburg (RU)); Tugova, E.A.; Popkov, V.I. (SPbGTI (TU), Sankt-Peterburg (RU)); FTI im. Ioffe RAN, Sankt-Peterburg (RU))

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Glitsin-nitratnyj sintez nanoporoshkov GdFeO₃

p. 81

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POWDERS; SYNTHESIS; CRYSTALS; IRON NITRATES; GADOLINIUM NITRATES; CHEMICAL COMPOSITION; NANOSTRUCTURES

Copper(I) sulfide: Analysis of ionic equilibria in the system #Left Double Quotation Mark#Cu²⁺ + #En Dash# L #En Dash# N₂H₄CS#Right Double Quotation Mark# (L #En Dash# NH₃, Ac⁻) and hydrochemical precipitation

S77

Glukhova, I.A.; Tulenin, S.S.; Maskaeva, L.N.; Markov, V.F. (UrFU im. Pervogo Prezidenta B.N. El'tsina, Ekaterinburg (RU))

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Sul'fid medi(I): analiz ionnykh ravnesij v sisteme #Left Double Quotation Mark#Cu²⁺ + #En Dash# L #En Dash# N₂H₄CS#Right Double Quotation Mark# (L #En Dash# NH₃, Ac⁻) i gidrokhimicheskoe osazhdenie

p. 82-84

(RU)

1 ref., 1 fig.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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NANOSTRUCTURES; COPPER SULFIDES; LIGANDS; THIOUREAS; COPPER SULFATES; FILMS; SYNTHESIS; CRYSTALS; NANOTECHNOLOGY

The distribution of the gas molecules according to their temperatures

S36

Golovkin, B.G. (IKhTT UrO RAN, Ekaterinburg (RU))

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Raspredelenie molekul gaza po ikh temperaturam

p. 85-86

(RU)

3 refs.

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MOLECULES; DISTRIBUTION; CERAMICS; GASES; SOLIDS; ANNEALING; HARDENING;
TEMPERATURE DEPENDENCE

Thermodynamics of Mo, Ta, TaC coatings deposition by reduction from halides

S37

Goncharov, O.Yu.; Fajzullin, R.R. (FTI UrO RAN, Izhevsk (RU); OOO NPO #Left-Pointing Double Angle Quotation Mark#Zashchitnye Pokrytiya#Right-Pointing Double Angle Quotation Mark#, Podol'sk Moskovskoj Obl. (RU)); Gus'kov, V.N. (IONKh RAN, Moscow (RU)); Baldaev, L.Kh. (OOO #Left-Pointing Double Angle Quotation Mark#Tekhnologicheskie Sistemy Zashchitnykh Pokrytij#Right-Pointing Double Angle Quotation Mark#, Shcherbinka Moskovskoj Obl. (RU))

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Termodinamika osazhdeniya pokrytij Mo, Ta, TaC vosstanovleniem iz galogenidov

p. 87-88

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MOLYBDENUM CHLORIDES; TANTALUM CHLORIDES; CADMIUM; ZINC; TANTALUM BROMIDES; TANTALUM IODIDES; TEMPERATURE RANGE 0400-1000 K; TEMPERATURE RANGE 1000-4000 K; SURFACE COATING; TANTALUM CARBIDES; REDUCTION

Information entropy of the image

S36

Grigorov, I.G. (IKhTT UrO RAN, Ekaterinburg (RU))

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Informatsionnaya ehntropiya izobrazheniya

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6 refs.

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ENTROPY; FRACTALS; CERAMICS; COMPOSITE MATERIALS; ALLOYS; FRACTURES; FEASIBILITY STUDIES; INFORMATION; DATA VISUALIZATION

The Shannon equation and the Zipf rank distribution in information theory

S36

Grigorov, I.G. (IKhTT UrO RAN, Ekaterinburg (RU))

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Uravnenie Shennona i rangovoe raspredelnie Zipfa v teorii informatsii

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(RU)

11 refs.

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Mechanochemical synthesis of highly dispersed carbides

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Grigor'eva, T.F.; Vorsina, I.A.; Vosmerikov, S.V.; Udalova, T.A.; Devyatkina, E.T.; Lyakhov, N.Z. (IKhTTM SO RAN, Novosibirsk (RU)); Tolochko, B.P.; Ancharov, A.I. (IKhTTM SO RAN, Novosibirsk (RU)); IYaF im. G.I. Budkera SO RAN, Novosibirsk (RU))

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DISPERSIONS; SYNTHESIS; GRINDING

Synthesis as a way to control the functional properties of zinc oxide

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Gyrdasova, O.I.; Vladimirova, E.V.; Melkozerova, M.A.; Baklanova, I.V.; Krasil'nikov, V.N. (IKhTT UrO RAN, Ekaterinburg (RU)); Perevozchikova, Yu.A.; Marchenkov, V.V. (IFM UrO RAN, Ekaterinburg (RU))

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Sintez kak sposob upravleniya funktsional'nymi svojstvami oksida tsinka

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3 refs., 3 figs.

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NANOSTRUCTURES; ZINC OXIDES; IRON OXIDES; CHEMICAL COMPOSITION; SOLID SOLUTIONS; MAGNETIC PROPERTIES; ABSORPTION SPECTRA; MAGNETIZATION

NMR in hydrated fluoro-substituted perovskites Ba₄Ca₂Nb₂O₁₁-0.5x_Fx

Denisova, T.A.; Baklanova, Ya.V. (IKhTT UrO RAN, Ekaterinburg (RU)); Animitsa, I.E.; Tseloval'nikov, M.D. (UrFU, Ekaterinburg (RU))

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YaMR v gidratirovannykh ftor-zameshchennykh perovskitakh Ba₄Ca₂Nb₂O₁₁-x F_x
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(RU)

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CHEMICAL COMPOSITION; CUBIC LATTICES; NUCLEAR MAGNETIC RESONANCE

Preparation of lithium ferrite by pyrolysis of aerosols**S37**

Dmitriev, A.V.; Zheleznykov, K.A.; Ermakova, L.V.; Kellerman, D.G.; Vladimirova, E.V. (IKhTT UrO RAN, Ekaterinburg (RU))

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Poluchenie ferrita litiya metodom piroliza aehrozolej

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1 ref., 2 figs.

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FERRITES; LITHIUM COMPOUNDS; CHEMICAL COMPOSITION; PYROLYSIS; AEROSOLS; LITHIUM NITRATES; IRON NITRATES; TEMPERATURE RANGE 0400-1000 K

The effect of high pressures and temperatures on zinc oxides obtained by precursor synthesis method

S77

D'yachkova, T.V.; Tyutyunnik, A.P.; Zajnuln, Yu.G.; Gyrdasova, O.I.; Krasil'nikov, V.N. (IKhTT UrO RAN, Ekaterinburg (RU))

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Vliyanie vysokikh davlenij i temperatur na oksidy tsinka, poluchennye prekursornym metodom sinteza p. 103-104

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3 refs., 1 fig.

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ZINC OXIDES; PRECURSOR; SYNTHESIS; NANOSTRUCTURES; CRYSTAL DEFECTS;
TEMPERATURE DEPENDENCE; PRESSURE DEPENDENCE; PRESSURE RANGE GIGA PA;
TEMPERATURE RANGE 0400-1000 K; LATTICE PARAMETERS

Synthesis and quantum-chemical modeling of fullerenes and nanotubes of gallium sulphide S77

Enyashin, A.N. (IKhKhT UrO RAN, Ekaterinburg (RU)); Brontvein, O.; Levy, M.; Tenne, R. (Weizmann Inst. of Science, Rehovot (IL)); Houben, L. (Weizmann Inst. of Science, Rehovot (IL)); Ernst Ruska Center, Forschungszentrum Julich GmbH, Julich (DE)); Gordon, J.M.; Feuermann, D. (Ben-Gurion Univ. of the Negev, Sede Boqer Campus (IL))

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Sintez i kvantovokhimicheskoe modelirovanie fullerenov i nanotrubok sul'fida galliya

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1 fig.

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Quantum-chemical study of ultrathin films of molybdenum sesquisulfide S37

Enyashin, A.N. (IKhKhT UrO RAN, Ekaterinburg (RU)); Kozlova, M.N.; Fedorov, V.E. (INKh SO RAN, Novosibirsk (RU))

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Kvantovokhimicheskoe issledovanie ul'tratonkikh plenok seskvisul'fida molibdena

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MOLYBDENUM SULFIDES; CHEMICAL COMPOSITION; LATTICE PARAMETERS; DENSITY FUNCTIONAL METHOD; THIN FILMS; FORMATION FREE ENERGY; ELECTRONIC STRUCTURE

Quantum-chemical study of quasi-one-dimensional sulfides of vanadium and niobium S37

Enyashin, A.N. (IKhKhT UrO RAN, Ekaterinburg (RU)); Kozlova, M.N.; Fedorov, V.E. (INKh SO RAN, Novosibirsk (RU))

All-Russian Conference #Left-Pointing Double Angle Quotation Mark#Solid state chemistry and functional materials - 2016#Right-Pointing Double Angle Quotation Mark#, XI Seminar #Left-Pointing Double Angle Quotation Mark#Thermodynamics and materials science#Right-Pointing Double Angle Quotation Mark#

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Kvantovokhimicheskoe issledovanie kvaziodnomernykh sul'fidov vanadiya i niobiya

p. 107

(RU)

1 fig.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

NIObIUM SULFIDES; VANADIUM SULFIDES; LATTICE PARAMETERS; DENSITY FUNCTIONAL METHOD; ELECTRONIC STRUCTURE; BAND THEORY; SEMICONDUCTOR MATERIALS

Change in magnetic properties and microstructure of lithium ferrite during synthesis

S37

Zheleznikov, K.A.; Shalaeva, E.V.; Zabolotskaya, E.V.; Kellerman, D.G. (IKhTT UrO RAN, Ekaterinburg (RU))

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Izmenenie magnitnykh svojstv i mikrostruktury ferrita litiya v protsesse sinteza

p. 108-110

(RU)

5 refs., 5 figs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

LITHIUM COMPOUNDS; FERRITES; MICROSTRUCTURE; MAGNETIZATION; ANNEALING;
TEMPERATURE DEPENDENCE; TEMPERATURE RANGE 0400-1000 K

Glass-carbon nanoporous materials

S77

Zherebtsov, D.A.; Galimov, D.M.; Mikhajlov, G.G. (Yuzhno-Ural'skij Gosudarstvennyj Univ., Chelyabinsk (RU))

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Steklouglerodnye nanoporistye materialy

p. 111-112

(RU)

1 fig.

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368 p.

GLASS; CARBON; POROUS MATERIALS; NANOSTRUCTURES; NANOMATERIALS; FURANS;
CALCINATION

Dielectric function, electron-hole interactions and short-lived excitons in titanium dioxide

S36

Zhukov, V.P. (Inst. Khimii Tverdogo Tela Ural'skogo Otdeleniya RAN, Ekaterinburg (RU))

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Dielektricheskaya funktsiya, ehlektron-dyrochnye vzaimodejstviya i korotkozhivushchie ehksitony v dioksidi titana

p. 113-115

(RU)

5 refs., 1 fig.

Rossiyskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

TITANIUM OXIDES; DIELECTRIC PROPERTIES; SEMICONDUCTOR MATERIALS; INTERACTIONS; ELECTRONS; HOLES; SOLIDS; EXCITONS

Optical properties, dynamics of electronic excitations and photocatalytic activity of semiconductor oxides**S36***Zhukov, V.P. (Inst. Khimii Tverdogo Tela Ural'skogo Otdeleniya RAN, Ekaterinburg (RU))*

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Opticheskie svoystva, dinamika ehlektronnykh vozbuzhdenij i fotokataliticheskaya aktivnost' poluprovodnikovyx oksidov

p. 116-118

(RU)

6 refs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

SEMICONDUCTOR MATERIALS; EXCITATION; ELECTRONS; OPTICAL PROPERTIES; ZINC OXIDES; TITANIUM OXIDES; RUTILE

All you wanted to know about SCS, but hesitate to ask

S37

Zhuravlev, V.D.; Bamburov, V.G.; Khaliullin, Sh.M. (IKhTT UrO RAN, Ekaterinburg (RU))

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Vse, chto vy khoteli uznat' o SCS, no stesnyalis' sprosit'

p. 119

(RU)

2 refs., 1 fig.

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SYNTHESIS; SOLUTIONS; COMBUSTION; OXIDES; NITRATES; ORGANIC COMPOUNDS;
TEMPERATURE RANGE 0400-1000 K; TEMPERATURE RANGE 1000-4000 K; ABUNDANCE

Spectrophotometric (in situ) method in studies of equilibria involving vapor and phase diagrams

S37

Zavrazhnov, A.Yu.; Berezin, S.S.; Kosyakov, A.V.; Chernenko, K.K. (Voronezhskij GosUniv., Voronezh (RU))

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Spektrofotometricheskij (in situ) metod v issledovaniyakh ravnovesij s uchastiem para i fazovykh diagramm p. 120-122

(RU)

2 refs., 2 figs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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GALLIUM IODIDES; PARTIAL PRESSURE; PRESSURE RANGE PA; ABSORPTION SPECTRA;
TEMPERATURE RANGE 0273-0400 K; PHASE DIAGRAMS; EQUILIBRIUM

The genesis of the properties of the high-temperature nonstoichiometric phase SrFeO_{3- δ} (0 $\leq\delta\leq$ 0.5) in the coherent potential approximation

S36

Zajnullina, V.M.; Kozhevnikov, V.L. (IKhTT UrO RAN, Ekaterinburg (RU)); Korotin, M.A. (IFM im. M.N. Mikheeva UrO RAN, Ekaterinburg (RU))

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Genezis svojstv vysokotemperaturnoj nestekhiometricheskoj fazy $\text{SrFeO}_{3-\delta}$ ($0 \leq \delta \leq 0.5$) v priblizhenii kogherentnogo potentsiala

p. 123-124

(RU)

4 refs., 1 fig.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

STRONTIUM OXIDES; IRON OXIDES; CHEMICAL COMPOSITION; APPROXIMATIONS; VACANCIES; CUBIC LATTICES; FERMI LEVEL; SEMICONDUCTOR RECTIFIERS

Non-stoichiometry, alloying and pressure as factors of regulation of magnetic and optical properties of oxide and sulphide semiconductors

S36

Zajnullina, V.M.; Zhukov, V.P. (IKhTT UrO RAN, Ekaterinburg (RU)); Korotin, M.A. (IFM im. M.N. Mikheeva UrO RAN, Ekaterinburg (RU))

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Nstekhiometriya, legirovanie i davlenie kak faktory regulirovaniya magnitnykh i opticheskikh svojstv oksidnykh i sul'fidnykh poluprovodnikov

p. 125-126

(RU)

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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SEMICONDUCTOR MATERIALS; BARIUM SULFATES; COBALT SULFIDES; OPTICAL PROPERTIES; MAGNETIC PROPERTIES; CHEMICAL COMPOSITION; ELECTRONIC STRUCTURE

Charge states of vanadium ions in phosphor Zn₂SiO₄:V with a willemite structure

S37

Zajtseva, N.A. (IKhTT UrO RAN, Ekaterinburg (RU); FGBOU VO UGGU, Ekaterinburg (RU)); Krasnenko, T.I.; Tyutyunnik, A.P.; Samigullina, R.F.; Onufrieva, T.A.; Nikolaenko, I.V. (IKhTT UrO RAN, Ekaterinburg (RU)); Gracheva, I.N. (FGAOU VO KFU, Kazan' (RU))

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Zaryadovye sostoyaniya ionov vanadiya v lyuminofoze Zn₂SiO₄:V so strukturoj villemita

p. 127-128

(RU)

2 refs., 2 figs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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ZINC SILICATES; VANADIUM IONS; ION IMPLANTATION; SYNTHESIS; SOLID SOLUTIONS;
 LATTICE PARAMETERS; CALCINATION; CHEMICAL COMPOSITION; ELECTRON SPIN
 RESONANCE; SPECTRA

Crystal structure, oxygen non-stoichiometry and electrical properties of solid solutions

$La_{2-x}Ca_xNi_{1-y}(Fe,Cu)_yO_{4+\delta}$

S37

Zakharov, D.M.; Gilev, A.R.; Kiselev, E.A.; Cherepanov, V.A. (UrFU, Ekaterinburg (RU))

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Kristallicheskaya struktura, kislorodnaya nestekhiometriya i ehlektricheskie svoystva tverdykh rastvorov

$La_{2-x}Ca_xNi_{1-y}(Fe,Cu)_yO_{4+\delta}$

p. 129-131

(RU)

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Vanadium-oxide nanotubes, doped ions of cobalt and iron - new gas sensory materials

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Zakharova, G.S.; Enyashin, A.N. (IKhTT UrO RAN, Ekaterinburg (RU)); Lu, Y. (Wuhan Univ. of Technology, Wuhan (CN))

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Evaluation of structural changes in carbon fibers during their modification by electrochemical and thermal methods

S36

Zemskova, L.A.; Vojt, A.V.; Didenko, N.A. (IKh DVO RAN, Vladivostok (RU))

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Otsenka strukturnykh izmenenij uglerodnykh volokon v protsesse ikh modifikatsii ehlektrokhimicheskimi i termicheskimi metodami

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(RU)

13 refs.

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Crystallization of nanoamorphous luminescent substances based on

Sr₂Gd₈(SiO₄)₆₀:Eu

S37

Zuev, M.G. (IKhTT UrO RAN, Ekaterinburg (RU)); Il'ves, V.G.; Sokovnin, S.Yu. (IEhF UrO RAN, Ekaterinburg (RU)); URFU im. Pervogo Prezidenta RF B.N. El'tsina, Ekaterinburg (RU))

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Kristallizatsiya nanoamorfnykh lyuminoforov na osnove Sr₂Gd₈(SiO₄)₆₀:Eu

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(RU)

1 ref.

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Calculation of the formation regions of the solid phase of SnSe under hydrochemical precipitation

S37

Ibragimova, Z.M.; Smirnova, Z.I.; Ustyugova, V.S.; Yurk, V.M.; Tulenin, S.S.; Maskaeva, L.N.; Markov, V.F. (UrFU, Ekaterinburg (RU))

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Molecular dynamic simulation of the diffusion of oxygen ions in the solid electrolyte composition [ZrO₂]_{1-x}[Sc₂O₃]_x

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Ivonina, M.V.; Snegurov, P.A.; Sizov, V.V. (SPbGU, Sankt-Peterburg (RU))

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(RU)

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Thermodynamic stability of solid electrolyte Li₇La₃Zr₂O₁₂

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Il'ina, E.A.; Raskovalov, A.A. (IVTEh UrO RAN, Ekaterinburg (RU))

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Termodinamicheskaya ustojchivost' tverdogo ehlektrolita Li₇La₃Zr₂O₁₂

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Substitutional solid solutions in the system Tl₄PbTe₃-Tl₉BiTe₆-Tl₉GdTe₆ S37

Imamalieva, S.Z.; Babanly, M.B. (Inst. Kataliza i Neorganicheskoy Khimii NANA, Baku (AZ)); Alekberzade, G.I.; Agaev, F.G. (Inst. Kosmicheskikh Issledovanij Prirodnnykh Resursov, NAKA, Baku (RU))

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Tverdye rastvory zameshcheniya v sisteme Tl₄PbTe₃-Tl₉BiTe₆-Tl₉GdTe₆

p. 142-143

(RU)

4 refs., 1 fig.

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Possibilities for removal of heavy metals and radionuclides from aqueous solutions in a membrane reactor packed with sorbents

S37

Ioshin, A.A. (OOO NPP #Left Double Quotation Mark#Ehksorb#Right Double Quotation Mark#, Ekaterinburg (RU)); Polyakov, E.V.; Volkov, I.V. (IKhKhT UrO RAN, Ekaterinburg (RU))

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Vozmozhnosti udaleniya tyazhelykh metallov i radionuklidov iz vodnykh rastvorov v membrannom reaktore, paketirovannom sorbentami

p. 144-145

(RU)

1 ref., 1 fig.

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Activation of marichite NaFePO₄ for use as a cathode material of sodium-ion batteries S77

Kapaev, R.R.; Novikova, S.A.; Yaroslavtsev, A.B. (IONKh RAN, Moscow (RU)); Chekannikov, A.A.; Kulova, T.L.; Skundin, A.M. (IFKhEh RAN, Moscow (RU))

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Aktivatsiya marichita NaFePO₄ dlya ispol'zovaniya v kachestve katodnogo materiala natrij-ionnykh akkumulyatorov

p. 146-147

(RU)

1 ref., 1 fig.

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SODIUM PHOSPHATES; IRON PHOSPHATES; SYNTHESIS; CATHODES; NANOSTRUCTURES; CHEMICAL ACTIVATION; GRINDING; ORDER-DISORDER TRANSFORMATIONS

Nanocomposite LiFePO₄/C, obtained by Pechini, as a cathode material for lithium-ion battery S77

Kapaev, R.R.; Novikova, S.A.; Yaroslavtsev, A.B. (IONKh RAN, Moscow (RU)); Gryzlov, D.Yu.; Kulova, T.L.; Skundin, A.M. (IFKhEh RAN, Moscow (RU))

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Nanokompozit LiFePO₄/C, poluchennyj metodom Pechini, v kachestve katodnogo materiala dlya litij-ionnogo akkumulyatora

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(RU)

4 refs., 1 fig.

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368 p.

COMPOSITE MATERIALS; NANOSTRUCTURES; CATHODES; LITHIUM PHOSPHATES; IRON PHOSPHATES; SYNTHESIS; ANNEALING; TEMPERATURE RANGE 0400-1000 K; GRAPHITE

Glycine-nitrate synthesis of nanocrystalline ferrites Nd_{1-x}Bi_xFeO₃ (x=0.6)

S77

Karpov, O.N. (SPbGEhTU #Left-Pointing Double Angle Quotation Mark#LEhTI#Right-Pointing Double Angle Quotation Mark#, Sankt-Peterburg (RU); FTI im. Ioffe RAN, Sankt-Peterburg (RU)); Tugova, E.A. (FTI im. Ioffe RAN, Sankt-Peterburg (RU)); SPbGTI (TU), Sankt-Peterburg (RU)); Klyndyuk, A.I. (BGTU, Minsk (BY))

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Glitsin-nitratnyj sintez nanokristallicheskich ferritov Nd_{1-x}Bi_xFeO₃ (x = 0,6)

p. 151-153

(RU)

5 refs.

Neodymium, bismuth, iron nitrates

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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Phase relationships in the silica-titanium dioxide-germanium dioxide system

S36

Kirillova, S.A.; Al'myashev, V.I. (SPbGEhTU #Left-Pointing Double Angle Quotation Mark#LEhTI#Right-Pointing Double Angle Quotation Mark#, Sankt-Peterburg (RU))

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Fazovye sootnosheniya v sisteme dioksid kremniya #En Dash# dioksid titana #En Dash# dioksid germaniya
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(RU)

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SILICON OXIDES; TITANIUM OXIDES; GERMANIUM OXIDES; PHASE DIAGRAMS; LITHIUM CHLORIDES; POTASSIUM CHLORIDES; EQUILIBRIUM; CRYSTAL GROWTH; SYNTHESIS

Hydrothermal synthesis of nanodisperse α -Fe₂O₃

S77
Kleshchev, D.G.; Mirasov, V.Sh.; Zherebtsov, D.A. (FGBOU VPO "NII Khimii", Chelyabinsk (RU))

All-Russian Conference "Solid state chemistry and functional materials - 2016", XI Seminar "Thermodynamics and materials science"

Ekaterinburg (RU)

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Vserossijskaya konferentsiya "Khimiya tverdogo tela i funktsional'nye materialy - 2016", XI seminar "Termodinamika i materialovedenie"

Gidrotermal'nyj sintez nanodispersnogo α -Fe₂O₃

p. 157-159

(RU)

1 ref.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

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Thermodynamic modeling of heating of radioactive graphite in the atmosphere of steam

S36
Kobelev, A.M.; Terent'ev, D.I.; Alekseev, S.G. (UrI GPS MChS Rossii, Ekaterinburg (RU)); Barbin, N.M. (UrI GPS MChS Rossii, Ekaterinburg (RU)); UrGAU, Ekaterinburg (RU))

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Termodinamicheskoe modelirovanie nagrevaniya radioaktivnogo grafita v atmosfere para

p. 160-162

(RU)

12 refs.

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Nanostructured composite CdS/TiO₂ as photocatalyst in dechlorination reactions of 1,2,4-trichlorobenzene**S37**

Kozhevnikova, N.S.; Vorokh, A.S.; Yanchenko, M.Yu.; Buldakova, L.Yu. (IKhTT UrO RAN, Ekaterinburg (RU)); Gorbunova, T.I.; Zapevalov, A.Ya.; Pervova, M.G. (IOS UrO RAN, Ekaterinburg (RU))

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Nanostrukturirovannyj kompozit CdS/TiO₂ kak fotokatalizator v reaktsiyakh dekhlorirovaniya 1,2,4-trikhlorbencola

p. 163-165

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2 refs., 1 fig.

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CADMIUM SULFIDES; TITANIUM OXIDES; NANOSTRUCTURES; AROMATICS; ORGANIC CHLORINE COMPOUNDS; CATALYSTS; NANOPARTICLES; CRYSTALS; DECHLORINATION

Electrochemical synthesis of FeNi nanostructures

S77

Kozlovskij, A.L. (ENU im. L.N. Gumileva, Astana (KZ)); Zdorovets, M.V. (ENU im. L.N. Gumileva, Astana (KZ)); UrFU im. Pervogo Prezidenta RF B.N. El'tsina, Ekaterinburg (RU))

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Ehlektrokhimicheskij sintez FeNi nanostruktur

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(RU)

1 fig.

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NANOSTRUCTURES; NANOMATERIALS; NICKELINE ALLOY; IRON ALLOYS; SYNTHESIS;
 ELECTROCHEMISTRY; ELECTROCHEMICAL COATING

Magnetic behavior of solid solutions $\text{Bi}_{2-x}\text{Ba}_x\text{Nb}_{2-x}\text{Fe}_x\text{O}_9$ - δ

S37

Koksharova, L.A.; Zhuk, N.A. (Syktyvkar'skij Gosudarstvennyj Univ. im. Pitirima Sorokina, Syktyvkar (RU)); Chezhina, N.V. (Sankt-Peterburgskij Gosudarstvennyj Univ., Sankt-Peterburg (RU)); Lyutoev, V.P.; Makeev, B.A.; Shevchuk, S.S. (Inst. Geologii Komi NTs UrO RAN, Syktyvkar (RU)); Nizovtsev, A.N. (Inst. Biologii Komi NTs UrO RAN, Syktyvkar (RU))

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Magnitnoe povedenie tverdykh rastvorov $\text{Bi}_{2-x}\text{Ba}_x\text{Nb}_{2-x}\text{Fe}_x\text{O}_9$ - δ

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4 refs.

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Electron microscopy of films Cu-Sb

S37

Kolosov, V.Yu.; Yushkov, A.A. (UrFU, Ekaterinburg (RU)); Veretennikov, L.M. (UrFU, Ekaterinburg (RU));

UrGEhU, Ekaterinburg (RU)

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Ehlektronnaya mikroskopiya plenok Cu-Sb

p. 168-170

(RU)

4 refs., 1 fig.

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Structure and properties of new polymorphic varieties of graphene

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Kochengin, A.E.; Belenkov, E.A. (ChGU, Chelyabinsk (RU))

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Struktura i svojstva novykh polimorfnykh raznovidnostej grafena

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8 refs., 1 tab.

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GRAPHENE; CROSS-LINKING; LATTICE PARAMETERS; CRYSTALLIZATION; COMPUTERIZED SIMULATION; NANOMATERIALS

Study of the thermodynamics of Ln₂S₃ of dissolution in ternary sulfides MeLn₂S₄ S37

Kosheleva, E.V.; Ananchenko, B.A.; Mikhajlichenko, T.V.; Ushakova, Yu.N.; Blinova, T.A.; Kalinina, L.A. (Vyatskij Gosudarstvennyj Univ., Kirov (RU))

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Izuchenie termodinamiki rastvoreniya Ln₂S₃ v trojnykh sul'fidakh MeLn₂S₄

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(RU)

6 refs., 1 fig.

Me - Ca, Ba; Ln - Y, Yb, Sm, Tm

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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RARE EARTH COMPOUNDS; SULFIDES; CALCIUM SULFIDES; BARIUM SULFIDES; SOLID SOLUTIONS; CHEMICAL COMPOSITION; SOLUTION HEAT; DOPED MATERIALS; TEMPERATURE RANGE 0400-1000 K

Hydrosilicate nanoscrews: modeling, synthesis, properties

S77

Krasilin, A.A. (FTI im. A.F. Ioffe, Sankt-Peterburg (RU)); Khrapova, E.K. (FTI im. A.F. Ioffe, Sankt-Peterburg (RU)); SPbGEhTU #Left-Pointing Double Angle Quotation Mark#LEhTI#Right-Pointing Double Angle Quotation Mark#, Sankt-Peterburg (RU))

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Gidrosilikatnye nanosvitki: modelirovanie, sintez, svojstva

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(RU)

1 fig.

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368 p.

COMPUTERIZED SIMULATION; MANGANESE SILICATES; NICKEL SILICATES; HYDROXIDES; SYNTHESIS; CHEMICAL COMPOSITION; NANOTUBES; TRANSMISSION ELECTRON MICROSCOPY

Luminescence of Al₂O₃ and Al₂-₂Ln₂xO₃ (Ln=Eu, Tb) synthesized by a

precursor method**S77***Krasil'nikov, V.N.; Baklanova, I.V.; Zhukov, V.P.; Gyrdasova, O.I. (IKhTT UrO RAN, Ekaterinburg (RU))***All-Russian Conference #Left-Pointing Double Angle Quotation Mark#Solid state chemistry and functional materials - 2016#Right-Pointing Double Angle Quotation Mark#, XI Seminar #Left-Pointing Double Angle Quotation Mark#Thermodynamics and materials science#Right-Pointing Double Angle Quotation Mark#**

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Lyuminesentsiya Al₂O₃ i Al₂-₂xLn₂xO₃ (Ln = Eu, Tb), sintezirovannykh prekursornym sposobom

p. 178-180

(RU)

1 ref., 2 figs.

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ALUMINIUM OXIDES; EUROPIUM OXIDES; TERBIUM OXIDES; CHEMICAL COMPOSITION; NANOSTRUCTURES; LUMINESCENCE; DOPED MATERIALS; CARBON; MICROSTRUCTURE; SYNTHESIS

Observation of ferromagnetism in polycrystalline solid solutions Cd_{1-x}Fe_xO (0 ≤ x ≤ 0.07) at room temperature**S77***Krasil'nikov, V.N.; D'yachkova, T.V.; Tyutyunnik, A.P.; Gyrdasova, O.I.; Zhukov, V.P. (IKhTT UrO RAN, Ekaterinburg (RU)); Perevozchikova, M.A. (IFM UrO RAN, Ekaterinburg (RU)); Marchenkov, V.V. (IFM UrO RAN, Ekaterinburg (RU)); UrFU, Ekaterinburg (RU))***All-Russian Conference #Left-Pointing Double Angle Quotation Mark#Solid state chemistry and functional materials - 2016#Right-Pointing Double Angle Quotation Mark#, XI Seminar #Left-Pointing Double Angle Quotation Mark#Thermodynamics and materials science#Right-Pointing Double Angle Quotation Mark#**

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Nablyudenie ferromagnetizma pri komnatnoj temperature v polikristallicheskikh tverdykh rastvorakh Cd_{1-x}Fe_xO (0 ≤ x ≤ 0.07)

p. 181-183

(RU)

4 refs., 1 fig.

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POLYCRYSTALS; SOLID SOLUTIONS; NANOMATERIALS; CADMIUM OXIDES; FERROMAGNETIC MATERIALS; SYNTHESIS; FORMATES; MAGNETIZATION

Nanodisperse tungsten carbide (WC) and carbon-containing nanocomposites (WC:nC): synthesis, morphology, microstructure

S77

Krasil'nikov, V.N.; Polyakov, E.V.; Kuznetsov, M.V.; Tarakina, N.V. (IKhTT UrO RAN, Ekaterinburg (RU)); Khlebnikov, N.A. (IKhTT UrO RAN, Ekaterinburg (RU)); UrFU, Ekaterinburg (RU)

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Nanodispersnyj karbid vol'frama (WC) i uglerodsoderzhashchie nanokompozity (WC:nC): sintez, morfologiya, mikrostruktura

p. 184-186

(RU)

2 figs.

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368 p.

TUNGSTEN CARBIDES; NANOCOMPOSITES; SYNTHESIS; MICROSTRUCTURE; PRECURSOR; DISPERSIONS; HEAT TREATMENTS

Sc-, In-doped titanium bismuth titanates with pyrochlore type structure: Experimental and theoretical study of properties

S37

Krasnov, A.G.; Pijr, I.V. (Inst. Khimii Komi NTs UrO RAN, Syktyvkar (RU)); Shein, I.R. (Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU))

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Sc-, In-dopirovannye titanaty vismuta so strukturoj tipa pirokhlora: ehksperimental'noe i teoreticheskoe issledovanie svojstv

p. 187-188

(RU)

1 ref., 1 fig.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

TITANATES; BISMUTH COMPOUNDS; CRYSTAL DOPING; SCANDIUM COMPOUNDS; INDIUM COMPOUNDS; ABSORPTION SPECTRA; SOLID SOLUTIONS; DENSITY FUNCTIONAL METHOD

Membrane systems with a nanostructured layer based on magnesium, aluminum and silicon oxides

S77

Krivoshapkina, E.F. (Inst. Khimii Komi NTs UrO RAN, Syktyvkar (RU)); Vedyagin, A.A. (Inst. Kataliza im. G.K. Boreskova SO RAN, Novosibirsk (RU); Tomskij Politekhnikeskij Univ., Tomsk (RU)); Mishakov, I.V. (Tomskij Politekhnikeskij Univ., Tomsk (RU); Novosibirskij Gosudarstvennyj Univ., Novosibirsk (RU)); Krivoshapkin, P.V. (Inst. Khimii Komi NTs UrO RAN, Syktyvkar (RU); Syktyvkariskij Gosudarstvennyj Univ. im. Pitirima Sorokina, Syktyvkar (RU))

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Membrannye sistemy s nanostrukturirovannym sloem na osnove oksidov magniya, alyuminiya i kremniya p. 189-190 (RU)

4 refs., 1 fig.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

ALUMINIUM OXIDES; MAGNESIUM OXIDES; SILICON OXIDES; NANOPARTICLES; SOL-GEL PROCESS; SYNTHESIS; CERAMICS; PERMEABILITY; SCANNING ELECTRON MICROSCOPY

Deviations from Vegard's law of UO₂-ThO₂ crystalline precipitate cathode lattice parameter

S37

Krotov, V.E. (IVTEh UrO RAN, Ekaterinburg (RU))

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Otklonenie ot zakona Vegarda parametra reshetki kristallicheskikh katodnykh osadkov UO₂-ThO₂
p. 191-192

(RU)

2 refs., 1 fig.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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URANIUM OXIDES; THORIUM OXIDES; ELECTROLYSIS; SOLID SOLUTIONS; LATTICE PARAMETERS; ABUNDANCE; SINTERING

Preparation and study of bismuth-, strontium- and nickel-substituted manganites of lanthanum

S37

Kruzchkov, D.A.; Kajmieva, O.S.; Buyanova, E.S. (UrFU, Ekaterinburg (RU))

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Poluchenie i issledovanie vismut-, strontsiy- i nikel'-zameshchennykh manganitov lantana

p. 193-194

(RU)

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LANTHANUM COMPOUNDS; BISMUTH COMPOUNDS; STRONTIUM COMPOUNDS; NICKEL COMPOUNDS; CHEMICAL COMPOSITION; CRYSTAL DOPING; MAGNESIUM COMPOUNDS; OXYGEN COMPOUNDS; PARAMAGNETISM; ANNEALING; SYNTHESIS

Structural and electrophysical attestation of BIMEVOX, where Me=Fe, Nb

S37

Krylov, A.A.; Emel'yanova, Yu.V.; Buyanova, E.S. (UrFU, Ekaterinburg (RU))

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Strukturnaya i ehlektrofizicheskaya attestatsiya BIMEVOX, gde Me=Fe, Nb

p. 195-196

(RU)

1 ref.

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BISMUTH OXIDES; IRON OXIDES; VANADIUM OXIDES; CHEMICAL COMPOSITION; SOLID SOLUTIONS; ELECTRIC CONDUCTIVITY

Visualization of the atomic structure of the layered bismuth chalcogenides surface by photoelectron diffraction and holography

S37

Kuznetsov, M.V.; Ogorodnikov, I.I.; Vorokh, A.S. (IKhTT UrO RAN, Ekaterinburg (RU)); Yashina, L.V. (MGU, Khimicheskij Fakul'tet, Moscow (RU))

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Vizualizatsiya atomnoj struktury poverkhnosti sloistykh khal'kogenidov vismuta metodami fotoehlektronnoj difraktsii i golografii

p. 197-198

(RU)

Chalcogenides: Se, Te

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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BISMUTH TELLURIDES; BISMUTH SELENIDES; MOLECULAR STRUCTURE; X-RAY DIFFRACTION; PHOTOELECTRON SPECTROSCOPY; SURFACE PROPERTIES

Study regularities of microcomponents electrowinning from sulfate solutions using nanocomposite track membranes

S77

Kuklin, I.Eh.; Barashev, N.R.; Gushshamova, V.N.; Khlebnikov, N.A. (UrFU im. Pervogo Prezidenta B.N. El'tsina, Ekaterinburg (RU))

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Issledovanie zakonomernostej protsessov ehlektrokhimicheskogo izvlecheniya mikrokomponentov iz sul'fatnykh rastvorov s pomoshch'yu nanokompozitnykh trekovykh membran

p. 199-200

(RU)

6 refs., 2 figs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

NANOCOMPOSITES; ELECTRODEPOSITION; COPPER; SULFATES; NANOSTRUCTURES; PARTICLE TRACKS

Preparation of coating of metal compounds on PTM

S36

Kuklin, I.Eh.; Barashev, N.R.; Gushshamova, V.N.; Khlebnikov, N.A. (UrFU im. Pervogo Prezidenta B.N. El'tsina, Ekaterinburg (RU))

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Poluchenie pokrytiya soedinenij metallov na PTM

p. 201

(RU)

2 refs., 1 fig.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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MEMBRANES; COMPOSITE MATERIALS; NANOSTRUCTURES; POLYETHYLENE TEREPHTHALATE; SPRAY COOLING; SPRAYED COATINGS; PLASMA ARC SPRAYING; TITANIUM

Composite electrode materials with solid electrolytes for lithium-ion batteries

S36

Kunshina, G.B.; Ivanenko, V.I.; Kuznetsov, V.Ya. (IKhTREhMS KNTs RAN, Apatity (RU))

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Kompozitnye ehlektrodnye materialy s tverdymi ehlektrolitami dlya litij-ionnykh akkumulyatorov

p. 202

(RU)

1 ref.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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COMPOSITE MATERIALS; LITHIUM PHOSPHATES; COBALT PHOSPHATES; ALUMINIUM PHOSPHATES; CHEMICAL COMPOSITION; LITHIUM TITANATES; IONIC CONDUCTIVITY; TEMPERATURE RANGE 0400-1000 K; TEMPERATURE RANGE 1000-4000 K; SOLID ELECTROLYTES

Calculation of the boundary conditions of CdS-PbS solid solution formation in the system #Left-Pointing Double Angle Quotation Mark#CdCl₂-Pb(CH₃COO)₂-H₂NCH₂CH₂NH₂-N₂H₄CS#Right-Pointing Double Angle Quotation Mark# S37

Kutyavina, A.D.; Forostyanaya, N.A.; Maskaeva, L.N.; Markov, V.F. (UrFU im. Pervogo Prezidenta B.N. El'tsina, Ekaterinburg (RU))

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Raschet granichnykh uslovij obrazovaniya tverdogo rastvora CdS-PbS v sisteme #Left-Pointing Double Angle Quotation Mark#CdCl₂-Pb(CH₃COO)₂-H₂NCH₂CH₂NH₂-N₂H₄CS#Right-Pointing Double Angle Quotation Mark#

p. 203-205

(RU)

1 ref., 1 fig.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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SOLID SOLUTIONS; CADMIUM SULFIDES; LEAD SULFIDES; PRECIPITATION; HYDROLYSIS; CHEMICAL COMPOSITION; CHEMICAL PREPARATION; CADMIUM COMPLEXES; PH VALUE; LEAD COMPLEXES

Synthesis and attestation of bismuth- and tungsten-substituted lanthanum niobates

S37

Levina, A.A.; Bogdan, N.O.; Morozova, M.V.; Buyanova, E.S.; Kajmieva, O.S. (UrFU, Ekaterinburg (RU)); Petrova, S.A. (IMET UrO RAN, Ekaterinburg (RU))

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Sintez i attestatsiya vismut- i vol'framzameshchennykh niobatov lantana

p. 206-208

(RU)

3 refs.

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NIOBATES; LANTHANUM COMPOUNDS; CRYSTAL DOPING; ION IMPLANTATION; TUNGSTEN IONS; CHEMICAL COMPOSITION; TEMPERATURE RANGE 0400-1000 K; TEMPERATURE RANGE 1000-4000 K; CRYSTAL-PHASE TRANSFORMATIONS; SOLID SOLUTIONS; IONIC CONDUCTIVITY

Crystal structure and optical properties of $KLa_{9-x}Eu_x(GeO_4)_6O_{20}$ ($x=0-2$)

S37

Lipina, O.A.; Surat, L.L.; Chufarov, A.Yu.; Tyutyunnik, A.P.; Enyashin, A.H.; Zubkov, V.G. (IKhTT UrO RAN, Ekaterinburg (RU))

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Kristallicheskaya struktura i opticheskie svojstva $KLa_{9-x}Eu_x(GeO_4)_6O_{20}$ ($x=0-2$)

p. 209

(RU)

3 refs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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OPTICAL PROPERTIES; GERMANATES; POTASSIUM COMPOUNDS; LANTHANUM COMPOUNDS; EUROPIUM COMPOUNDS; CHEMICAL COMPOSITION; HEXAGONAL LATTICES; SOLID SOLUTIONS

Crystallochemical characteristics of ring germanates $Sr_3RE_2(Ge_3O_9)_2$ (RE = Y, La-Yb)

S37

Lipina, O.A.; Surat, L.L.; Melkozerova, M.A.; Baklanova, Ya.V.; Chufarov, A.Yu.; Tyutyunnik, A.P.; Leonidov, I.I.; Zubkov, V.G. (IKhTT UrO RAN, Ekaterinburg (RU))

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Kristallokhimicheskie osobennosti kol'tsevykh germanatov $Sr_3RE_2(Ge_3O_9)_2$ (RE = Y, La-Yb)

p. 210

(RU)

3 refs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO

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Influence of the concentration ratio V/Ge on the positional status of manganese in garnets S37

Lobachevskaya, N.I.; Ermakova, L.V.; Zabolotskaya, E.V.; Melkozerova, M.A.; Zhuravlev, V.D. (IKhTT UrO RAN, Ekaterinburg (RU))

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Vliyanie kontsentratsionnogo sootnosheniya V/Ge na pozitsionnoe polozhenie margantsa v granatakh p. 211-213

(RU)

3 refs., 1 tab.

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CALCIUM COMPOUNDS; MANGANESE COMPOUNDS; VANADIUM COMPOUNDS; GERMANIUM COMPOUNDS; OXYGEN COMPOUNDS; CHEMICAL COMPOSITION; CHEMICAL PREPARATION; LATTICE PARAMETERS; TEMPERATURE RANGE 0400-1000 K; TEMPERATURE RANGE 1000-4000 K

Formation of m-HfO₂ monocrystals and their luminescent properties

S37

Lozanov, V.V.; Baklanova, N.I. (IKhTTM SO RAN, Novosibirsk (RU)); Shayapov, V.R.; Berezin, A.S. (INKh SO RAN, Novosibirsk (RU))

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Formirovanie monokristallov m-HfO₂ i ikh lyuminestsentnye svoystva

p. 214

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Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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HAFNIUM OXIDES; MONOCRYSTALS; PRECIPITATION; CRYSTAL GROWTH; MONOCLINIC LATTICES; TEMPERATURE RANGE 1000-4000 K; SILICON OXIDES; PRESSURE RANGE MEGA PA 10-100; PHOTOLUMINESCENCE

Preparation of intermetallides based on iridium by reaction CVD method

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Lozanov, V.V.; Baklanova, N.I. (IKhTTM SO RAN, Novosibirsk (RU))

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Poluchenie intermetallidov na osnove iridiya metodom reaktsionnogo CVD

p. 215

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INTERMETALLIC COMPOUNDS; GRAPHITE; HAFNIUM CARBIDES; TANTALUM CARBIDES; CHEMICAL VAPOR DEPOSITION; THERMODYNAMIC MODEL; QUARTZ

Intracrystalline distribution of components and stability of Aurivillius phases in the Bi₄Ti₃O₁₂-BiFeO₃ system

S37

Lomanova, N.A.; Gusarov, V.V. (FTI im. A.F. Ioffe RAN, Sankt-Peterburg (RU)); Semenov, V.G.; Panchuk, V.V. (SPbGU, Sankt-Peterburg (RU))

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Vnutrikristallichesкое raspredelenie komponentov i ustojchivost' faz Aurivilliusa v sisteme Bi₄Ti₃O₁₂-BiFeO₃

p. 216-217

(RU)

1 fig.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO

RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

FERRITES; BISMUTH COMPOUNDS; TITANATES; CHEMICAL COMPOSITION; CRYSTAL STRUCTURE; MOESSBAUER EFFECT; NANOSTRUCTURES

Modeling of chemical-technological processes of the nuclear fuel cycle in the All-Russian Scientific Research Institute of Technical Physics

S11

Makeeva, I.R. (FGUP #Left-Pointing Double Angle Quotation Mark#RFYaTs-VNIITF im. Akademika E.I. Zababakhina#Right-Pointing Double Angle Quotation Mark#, Snezhinsk Chelyabinskoy Obl. (RU))

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Modelirovanie khimiko-tehnologicheskikh protsessov yadernogo toplivnogo tsikla v RFYaTs-VNIITF p. 218-220

(RU)

4 refs., 1 fig.

Rossiyskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

FUEL CYCLE; COMPUTERIZED SIMULATION; PROGRAMMING; SPENT FUELS; OPTIMIZATION;
MIXED NITRIDE FUELS; TECHNOLOGY ASSESSMENT

3D Modeling of solidus surfaces and binodal decomposition of solid solutions in the system YbTe-PbTe-SnTe

S37

Mamedov, A.N.; Babanly, M.B. (Inst. Kataliza i Neorganicheskoy Khimii NANA, Baku (AZ)); Ibadova, G.I.; Mirzoeva, R.Dzh. (Bakinskij Gosudarstvennyj Univ., Baku (AZ))

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3D-modelirovanie poverkhnostej solidusa i binodal'nogo raspada tverdykh rastvorov v sisteme YbTe-PbTe-SnTe

p. 221-222

(RU)

6 refs., 1 fig.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

SOLID SOLUTIONS; LEAD TELLURIDES; TIN TELLURIDES; YTTERBIUM TELLURIDES; PHASE DIAGRAMS; APPROXIMATIONS; THERMODYNAMICS

Influence of the history of aqueous solutions on the composition, morphology and functional properties of hydrochemically deposited films of metal sulphides

S37

Markov, V.F.; Maskaeva, L.N.; Alekseeva, T.A.; Kurilenko, A.S. (Ural'skij Federal'nyj Univ. im. Pervogo

Prezidenta Rossii B.N. El'tsina, Ekaterinburg (RU)

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Vliyanie predystorii vodnykh rastvorov na sostav, morfologiyu i funktsional'nye svoystva gidrokhimicheski osazhdennykh plenok sul'fidov metallov

p. 223-224

(RU)

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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Preparation of solid solutions of CdS-PbS by the ion exchange transformation method S37

Maskaeva, L.N.; Forostyanaya, N.A.; Markov, V.F. (UrFU im. Pervogo Prezidenta B.N. El'tsina, Ekaterinburg (RU))

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Poluchenie tverdykh rastvorov CdS-PbS metodom ionoobmennoj transformatsii

p. 225-227

(RU)

3 refs., 1 fig.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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CADMIUM SULFIDES; LEAD SULFIDES; SOLID SOLUTIONS; ION EXCHANGE; THIN FILMS; DIFFUSION; STRUCTURAL CHEMICAL ANALYSIS; TEMPERATURE RANGE 0400-1000 K

Energy characteristics of barium cerate, substituted by yttrium and europium oxides

S37

Matskevich, N.I.; Vyazovkin, I.V.; Semerikova, A.N.; Anufrieva, O.I.; Matskevich, M.Yu. (INKh SO RAN, Novosibirsk (RU)); Wolf, Th. (Karlsruhe Inst. of Technology, Inst. of Solid State Physics, Karlsruhe (DE))

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Ehnergeticheskie kharakteristiki tserata bariya, zameshchennogo oksidami ittriya i evropiya

p. 228

(RU)

3 refs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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The enthalpy of stabilization of strontium cerate, substituted by indium and lutetium oxides

S37

Matskevich, N.I.; Gel'fond, N.V.; Vyazovkin, I.V.; Anufrieva, O.I.; Matskevich, M.Yu. (INKh SO RAN, Novosibirsk (RU))

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Ehntal'piya stabilizatsii tserata strontsiya, zameshchennogo oksidami indiya i lyutetsiya

p. 229

(RU)

1 ref.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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STRONTIUM COMPOUNDS; CERIUM COMPOUNDS; LUTETIUM COMPOUNDS; INDIUM COMPOUNDS; OXYGEN COMPOUNDS; CHEMICAL COMPOSITION; ORTHORHOMBIC LATTICES; ENTHALPY; CALORIMETRY

Solid-phase equilibria in the Ag₂Te-SnTe-Sb₂Te₃ system and the thermodynamic properties of solid solutions

S37

Mashadiyeva, L.F.; Babanly, K.N.; Aliev, I.I. (Inst. Kataliza i Neorganicheskoy Khimii NANA, Baku (AZ)); Kevser, Dzh.; Yusibov, Yu.A. (Gyandzhinskij Gosudarstvennyj Univ., Gyandzha (AZ))

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Tverdofaznye ravnovesiya v sisteme $Ag_2Te-SnTe-Sb_2Te_3$ i termodinamicheskie svojstva tverdykh rastvorov

p. 230-231

(RU)

3 refs., 1 fig.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

SILVER TELLURIDES; TIN TELLURIDES; ANTIMONY TELLURIDES; SOLID SOLUTIONS; ALLOYS; PHASE DIAGRAMS; THERMODYNAMIC PROPERTIES; EQUILIBRIUM

EPR study of exchange interactions in solid solutions $Ca_{3-x}Mn_2Ge_{3-y}V_yO_{12}$ with garnet structure

S37

Melkozerova, M.A.; Lobachevskaya, N.I.; Zabolotskaya, E.V.; Ermakova, L.V.; Zhuravlev, V.D. (IKhTT UrO RAN, Ekaterinburg (RU)); Vazhenin, V.A. (Ural'skij Federal'nyj Univ., Ekaterinburg (RU))

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EhPR issledovanie obmennykh vzaimodejstvij v tverdykh rastvorakh Ca₃-xMn₂Ge₃-yV_yO₁₂
so strukturoj granata
p. 232-234
(RU)
7 refs., 2 figs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU);
Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO
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COMPOUNDS; OXYGEN COMPOUNDS; SOLID SOLUTIONS; ELECTRON SPIN RESONANCE;
STRUCTURAL CHEMICAL ANALYSIS; SPECTRA; TEMPERATURE RANGE 0065-0273 K;
TEMPERATURE RANGE 0273-0400 K

Modeling from first principles of solids melting process on modern supercomputers **S36**

Mitrokhin, Yu.S. (Udmurtskij Gosudarstvennyj Univ., Izhevsk (RU))

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functional materials - 2016#Right-Pointing Double Angle Quotation Mark#, XI Seminar #Left-
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Modelirovanie iz pervykh printsipov protsessa plavleniya tverdykh tel na sovremennykh superkomp'yuterakh
p. 235
(RU)
5 refs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU);
Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO
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ALUMINIUM ALLOYS; MOLECULAR DYNAMICS METHOD; COMPUTERIZED SIMULATION; SOLIDS; MELTING; BINARY ALLOY SYSTEMS; TERNARY ALLOY SYSTEMS; NICKEL BASE ALLOYS; MELTING POINTS

Application of Wannier functions for calculating the electronic structure of a crystal S36

Mitrokhin, Yu.S. (Udmurtskij Gosudarstvennyj Univ., Izhevsk (RU))

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Primenenie funktsij Van'e dlya rascheta ehlektronnoj struktury kristalla

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(RU)

4 refs.

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Synthesis and electroconductive characteristics of materials based on substituted bismuth molybdates

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Mikhajlovskaya, Z.A.; Posokhova, S.M.; P'yankova, D.V. (UrFU, Ekaterinburg (RU))

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Thermodynamic study of compounds SbCl (C-S, Se, Te) by the EMF method

S37

Musaeva, S.S.; Gasanova, Z.T.; Dzhafarov, Ya.I. (Bakinskij Gosudarstvennyj Univ., Baku (AZ)); Aliev, Z.S.; Babanly, M.B. (Inst. Kataliza i Neorganicheskoy Khimii NANA, Baku (AZ))

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Mark#

Termodinamicheskoe issledovanie soedinenij SbXI (X-S, Se, Te) metodom EhDS

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S36

Nepomiluev, A.M. (FGUP #Left-Pointing Double Angle Quotation Mark#UNIIM#Right-Pointing Double Angle Quotation Mark#, Ekaterinburg (RU)); Reznitskikh, O.G.; Nechaev, G.V. (IVTEhKh UrO RAN, Ekaterinburg (RU)); Zemlyanov, K.G. (UrFU im. Pervogo Prezidenta Rossii B.N. El'tsina, Ekaterinburg (RU))

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Issledovanie kinetiki fazovykh prevrashchenij v steklakh K_2SO_4 - $ZnSO_4$

p. 240-242

(RU)

5 refs., 3 tabs.

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Conditions for the formation of phases with spinel structure from low-temperature precursors in the Mn-Ga-O system

S36

Nikulina, O.S.; Bulavchenko, O.A.; Tsybulya, S.V. (IK SO RAN, Novosibirsk (RU)); NGU, Novosibirsk (RU)); Afonassenko, T.N.; Tsyurul'nikov, P.G. (IPPU SO RAN, Omsk (RU))

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Usloviya formirovaniya faz so strukturoj shpineli iz nizkotemperaturnykh predshestvennikov v sisteme Mn-Ga-O

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(RU)

5 refs., 1 fig.

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New materials for lithium- and sodium-ionic accumulators

S77

Novikova, S.A.; Stenina, I.A.; Yaroslavtsev, A.B. (IONKh RAN, Moscow (RU)); Kulova, T.L.; Skundin, A.M. (IFKhEh RAN, Moscow (RU))

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Novye materialy dlya litij- i natrij-ionnykh akkumulyatorov

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7 refs.

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Oglezneva, S.A. (Nauchnyj Tsentr Poroshkovogo Materialovedeniya PNIPU, Perm' (RU))

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Struktura i svojstva metastabil'noj poroshkovej stali - matritsy dlya almaznogo instrumenta

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Effect of mechanical activation on the reactivity of plant raw polymers

S09

Podgorbunskikh, E.M.; Bulina, N.V.; Bychkov, A.L.; Lomovskij, O.I. (IKhTTM SO RAN, Novosibirsk (RU))

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Vliyanie mekhanicheskoy aktivatsii na reakcionnyuyu sposobnost' polimerov rastitel'nogo syr'ya

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4 refs., 2 figs.

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The effect of the substitution of yttrium on the thermodynamics of labile oxygen in layered praseodymium barium cobaltites with a perovskite-like structure

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Politov, B.V. (UrFU, Ekaterinburg (RU)); IKhTT UrO RAN, Ekaterinburg (RU)); Suntsov, A.Yu.; Patrakeev, M.V.; Leonidov, I.A.; Kozhevnikov, V.L. (IKhTT UrO RAN, Ekaterinburg (RU))

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Thermodynamics and kinetics of the formation of copper(II) oxide on the glass surface by the method arising reagents

S36

Polyakov, E.V.; Tsukanov, R.R.; Khlebnikov, N.A.; Buldakova, L.Yu. (IKhKhT UrO RAN, Ekaterinburg (RU))

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Termodinamika i kinetika obrazovaniya oksida medi(II) na poverkhnosti stekla metodom vznikayushchikh reagentov

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(RU)

1 ref., 1 fig.

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COPPER OXIDES; SEMICONDUCTOR MATERIALS; GLASS; SILICON OXIDES; QUARTZ; CHEMICAL REACTION KINETICS; THERMODYNAMIC PROPERTIES

Features of the formation and evolution of YFeO₃ nanocrystals during thermal processing of glycine-nitrate combustion products

S77

Popkov, V.I.; Vasilevskaya, A.K. (FTI im. Ioffe RAN, Sankt-Peterburg (RU))

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Osobnosti formirovaniya i ehvolyutsii nanokristallov YFeO₃ pri termicheskoj obrabotke produktov glitsin-nitratnogo gorenija

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Quantum-chemical modeling of nanoparticles and TiO crystals with vacancies

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Popov, I.S.; Enyashin, A.N. (IKhTT UrO RAN, Ekaterinburg (RU))

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p. 258-260

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TITANIUM OXIDES; CRYSTALS; NANOPARTICLES; VACANCIES; DENSITY FUNCTIONAL METHOD; FORMATION FREE ENERGY

Functional properties of HfGeO₄ synthesized by various methods

S37

Prokip, V.Eh.; Baklanova, N.I. (IKhTTM SO RAN, Novosibirsk (RU)); Shayapov, V.R. (INKh SO RAN, Novosibirsk (RU))

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Funktsional'nye svoystva HfGeO₄, sintezirovannogo razlichnymi metodami
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GERMANATES; HAFNIUM COMPOUNDS; CHEMICAL PREPARATION; TEMPERATURE RANGE 1000-4000 K; LUMINESCENCE; CHEMICAL REACTIONS; OXIDES; COPRECIPITATION; SOL-GEL PROCESS

Formation and stabilization of the non-autonomous phase in the Zn₂V₂O₇ - Cd₂V₂O₇ system: shearing strains of the crystal lattice

S37

Rotermel', M.V.; Krasnenko, T.I.; Onufrieva, T.A.; Zabolotskaya, E.V.; Samigullina, R.F.; Suntsov, A.Yu. (IKhTT UrO RAN, Ekaterinburg (RU)); Petrova, S.A.; Titova, S.G. (IMET UrO RAN, Ekaterinburg (RU))

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Образование и стабилизация неавтономной фазы в системе Zn₂V₂O₇ - Cd₂V₂O₇: роль сдвиговых деформаций кристаллической решетки

p. 263-264

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4 refs., 2 figs.

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Exchange interactions and the state of iron atoms in Bi₅Nb₃ - 3_x Fe₃ - x O_{1.5} - δ solid solutions

S36

Rychkova, L.V.; Zhuk, N.A. (Syktyvkar'skij Gosudarstvennyj Univ. im. Pitirima Sorokina, Syktyvkar (RU)); Chezhina, N.V. (Sankt-Peterburgskij Gosudarstvennyj Univ., Sankt-Peterburg (RU)); Lyutoev, V.P.; Makeev, B.A.; Shevchuk, S.S. (Inst. Geologii Komi NTs UrO RAN, Syktyvkar (RU)); Nizovtsev, A.N. (Inst. Biologii Komi NTs UrO RAN, Syktyvkar (RU))

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Obmennye vzaimodejstviya i sostoyanie atomov zheleza v tverdykh rastvorakh $Bi_5Nb_3_{-}3_xFe_3_xO_{1_5_{-}}_{-}\delta$

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Synthesis, structure and properties of sodium-ionic conductors $Na_9R(EO_4)_6$ (E = Mo, W)

S37

Savina, A.A. (BIP SO RAN, Ulan-Udeh (RU)); Morozov, V.A.; Belov, D.A.; Lazoryak, B.I. (MGU im. M.V. Lomonosova, Moscow (RU)); Solodovnikova, Z.A. (INKh im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)); Khajkina, E.G. (BIP SO RAN, Ulan-Udeh (RU)); BGU, Ulan-Udeh (RU))

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Sintez, stroenie i svoystva natrij-ionnykh provodnikov $Na_9R(EhO_4)_6$ (Eh = Mo, W)

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5 refs., 2 figs.

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Interaction of zirconium and hafnium tetrachlorides with indium and thallium monochlorides

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Salyulev, A.B.; Vovkotrub, Eh.G. (IVTEh UrO RAN, Ekaterinburg (RU))

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p. 269-270

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On the reaction of trivalent REE compounds with chlorine in chloride systems

S37

Salyulev, A.B.; Vovkotrub, E.h.G. (IVTEh UrO RAN, Ekaterinburg (RU))

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O vzaimodejstvii soedinenij trekhvalentnykh RZEh s khlorom v khloridnykh sistemakh

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2 refs.

Ln = Ce, Tb, Pr

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Features of phase formation in the system ZrO₂-WO₃-H₂O

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Svinolupova, A.S.; Kirillova, S.A. (SPbGhTU #Left-Pointing Double Angle Quotation Mark#LEhTI#Right-Pointing Double Angle Quotation Mark#, Sankt-Peterburg (RU))

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Osobennosti fazoobrazovaniya v sisteme ZrO₂-WO₃-H₂O

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Neutron diffraction measurements of composite multiferroics

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Semkin, M.A. (IEN UrFU, Ekaterinburg (RU)); Karpova, T.S. (IKhTT UrO RAN, Ekaterinburg (RU)); Teplykh, A.E.; Nosov, A.P. (IFM UrO RAN, Ekaterinburg (RU)); Pirogov, A.N. (IEN UrFU, Ekaterinburg (RU)); IFM UrO RAN, Ekaterinburg (RU))

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Experimental studies in the interests of hydrogen safety of WWER NPPs

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Simonenko, V.A. (FGUP #Left-Pointing Double Angle Quotation Mark#RFYaTs-VNIITF im. E.I. Zababakhina#Right-Pointing Double Angle Quotation Mark#, Snezhinsk (RU))

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Ehksperimental'nye issledovaniya v interesakh vodorodnoj bezopasnosti AEhS VVEhR

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(RU)

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Diffusion-hardening solders based on gallium. Effect of intermetallic compounds and inert fillers on the properties of compounds

S36

Skachkov, V.M.; Yatsenko, S.P.; Pasechnik, L.A.; Sabirzyanov, N.A. (IKhTT UrO RAN, Ekaterinburg (RU))

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Diffuzionno-tverdeyushchie pripoi na osnove galliya. Vliyanie intermetallicheskikh soedinenij i inertnykh napolnitelej na svojstva soedinenij

p. 282

(RU)

1 ref.

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368 p.

GALLIUM BASE ALLOYS; DIFFUSION; SOLDERING; INTERMETALLIC COMPOUNDS; COMPOSITE MATERIALS; HARDENING; FILLER METALS; BRAZING ALLOYS

Unidirectional magnetic anisotropy of the electrical resistance in RBaCo₂O_{5-x} (R=Eu, Gd)

S37

Solin, N.I.; Naumov, S.V.; Telegin, S.V. (Inst. Fiziki Metallov im. M.N. Mikheeva UrO RAN, Ekaterinburg (RU))

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Odnopravlenennaya magnitnaya anizotropiya ehlektrosoprotivleniya v RBaCo₂O_{5-x} (R=Eu, Gd)
p. 283-284

(RU)

3 refs., 2 figs.

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EUROPIUM OXIDES; BARIUM OXIDES; COBALT OXIDES; CHEMICAL COMPOSITION;
ANISOTROPY; ELECTRIC CONDUCTIVITY; MAGNETIZATION; MAGNETIC FIELDS;
GADOLINIUM OXIDES

The connection between the thermoelectric quality factor of materials and their real structure: Gd sesquioxide

S36

Sotnikov, A.V.; Bakovets, V.V.; Pishchur, D.P.; Agazhanov, A.; Naumov, N.G.; Romanenko, A.I. (FGBUN Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)), e-mail: sotnikov@niic.nsc.ru

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Svyaz' termoelektricheskoy dobrotnosti materialov s ikh real'noj strukturoj: polutornyj sul'fid Gd
p. 285
(RU)

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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GADOLINIUM SULFIDES; POLYCRYSTALS; SPECIFIC HEAT; THERMAL CONDUCTIVITY; TEMPERATURE RANGE 0273-0400 K; TEMPERATURE RANGE 0400-1000 K; CRYSTAL DEFECTS

Investigation of the stability of pyrite relative to marcasite at low temperatures

S36

Spesivtseva, A.P.; Berezin, S.S.; Okushko, A.I.; Zavrazhnov, A.Yu. (Voronezhskij Gosudarstvennyj Univ., Voronezh (RU)); Sergeeva, A.V. (Inst. Vulkanologii i Seismologii DVO RAN, Petropavlovsk-Kamchatskij (RU))

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Issledovanie voprosa ob ustojchivosti pirita otnositel'no markazita pri nizkikh temperaturakh

p. 286-287

(RU)

2 refs.

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PYRITE; IRON SULFIDES; MARCASITE; HALIDES; POTASSIUM CHLORIDES; STRUCTURAL CHEMICAL ANALYSIS; TEMPERATURE RANGE 0400-1000 K; THIN FILMS

Hybrid perovskites: obtaining, structure, thermodynamics

S37

Steparuk, A.S.; Ivanov, I.L.; Tsvetkov, D.S.; Zuev, A.Yu. (UrFU, Ekaterinburg (RU))

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Gibridnye perovskity: poluchenie, struktura, termodinamika

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368 p.

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Thermodynamic properties of the Gd₂O₃-Y₂O₃-HfO₂ system at high temperatures

S37

Stolyarova, V.L.; Lopatin, S.I.; Vorozhtso, V.A. (Inst. Khimii SPbGU, Sankt-Peterburg (RU)); Karachevtsev, F.N. (GNTs RF #Left-Pointing Double Angle Quotation Mark#VIAM#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Termodinamicheskie svoystva sistemy Gd₂O₃-Y₂O₃-HfO₂ pri vysokikh temperaturakh

p. 289

(RU)

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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GADOLINIUM OXIDES; YTTRIUM OXIDES; HAFNIUM OXIDES; SOLID SOLUTIONS; CHEMICAL COMPOSITION; TEMPERATURE RANGE 1000-4000 K; PARTIAL PRESSURE; EVAPORATION

Structural, electronic properties and stability of triple acetylides AMC₂ (A=Li, Na, K, Rb, Cs; M=Cu, Ag, Au) according to FLAPW-GGA calculations

S36

Suetin, D.V. (IKhTT UrO RAN, Ekaterinburg (RU))

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Mark#

Strukturnye, ehlektronnye svoystva i stabil'nost' trojnykh atsetilidov AMC_2 (A = Li, Na, K, Rb, Cs; M = Cu, Ag, Au) po dannym FLAPW-GGA raschetov

p. 291-293

(RU)

4 refs., 1 fig., 1 tab.

Rossiyskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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FORMATION FREE ENERGY; CRYSTAL STRUCTURE; DIELECTRIC PROPERTIES; CESIUM COMPOUNDS; LITHIUM COMPOUNDS; GOLD COMPOUNDS; SILVER COMPOUNDS; CHEMICAL COMPOSITION

Theoretical modeling of structural, mechanical, electronic, magnetic properties of a series of nitrides A_3MN (A=Ti, V, Cr, Mn, Fe, Co, Ni; M=Pd, Pt) with an anti-perovskite structure

S36

Suetin, D.V.; Shein, I.R.; Bannikov, V.V. (IKhTT UrO RAN, Ekaterinburg (RU))

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Teoreticheskoe modelirovanie strukturnykh, mekhanicheskikh, ehlektronnykh, magnitnykh svoystv serii nitridov A_3MN (A = Ti, V, Cr, Mn, Fe, Co, Ni; M = Pd, Pt) so strukturoj antiperovskita

p. 294-296

(RU)

4 refs., 2 tabs.

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VANADIUM NITRIDES; PALLADIUM NITRIDES; PLATINUM NITRIDES; FORMATION FREE ENERGY; SUPERCONDUCTIVITY; COMPUTER CALCULATIONS; MECHANICAL PROPERTIES; CRYSTAL STRUCTURE

Hybrid carbon phases from sp^2+sp^3 hybridized atoms

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Tin'gaev, M.I.; Belenkov, E.A. (Chelyabinskij Gosudarstvennyj Univ., Chelyabinsk (RU))

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Gibridnye uglerodnye fazy iz sp^2+sp^3 gibridizirovannykh atomov

p. 297-299

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HYBRID SYSTEMS; CARBON NANOTUBES; CROSS-LINKING; NANOMATERIALS; ELECTRONIC STRUCTURE; GRAPHITE; FULLERENES; ATOMIC CLUSTERS

Synthesis, structure and service properties of high-temperature superconductors (R,Ca)Ba₂Cu₃O_y

S36

Titova, S.G.; Pryanichnikov, S.V.; Fetisov, A.V. (IMET UrO RAN, Ekaterinburg (RU))

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Sintez, struktura i sluzhebnye svoystva vysokotemperaturnykh sverkhprovodnikov (R,Ca)Ba₂Cu₃O_y p. 300

(RU)

R - Y, Nd, Sm, Eu, Dy, Lu

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SUPERCONDUCTORS; CRYSTAL STRUCTURE; ELECTRONIC STRUCTURE; RARE EARTH COMPOUNDS; CALCIUM COMPOUNDS; BARIUM COMPOUNDS; COPPER COMPOUNDS; OXYGEN COMPOUNDS; TRANSITION TEMPERATURE; LATTICE PARAMETERS; TEMPERATURE RANGE 0065-0273 K; TEMPERATURE RANGE 0273-0400 K

Preparation and investigation of thin films In₂Se₃

S36

Tulenin, S.S.; Glukhova, I.A.; Timina, A.A. (UrFU, Ekaterinburg (RU)); Maraeva, E.V.; Ponamareva, A.A. (SPbGElTU, Sankt-Peterburg (RU))

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Poluchenie i issledovanie tonkikh plenok In₂Se₃

p. 301-303

(RU)

3 refs., 1 fig.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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THIN FILMS; INDIUM SELENIDES; PRECIPITATION; AQUEOUS SOLUTIONS; TEMPERATURE RANGE 0273-0400 K; PH VALUE; NANOSTRUCTURES; SYNTHESIS

Synthesis and structure of solid solutions Ca_{1-x}Y_xBaCo_{4-y}Fe_yO₇ (0<x<0.2, 0<y<0.5)

S37

Turkin, D.I.; Bazuev, G.V. (IKhTT URO RAN, Ekaterinburg (RU))

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Sintez i stroenie tverdykh rastvorov Ca_{1-x}Y_xBaCo_{4-y}Fe_yO₇ (0<x<0.2, 0<y<0.5)

p. 304-305

(RU)

2 refs., 1 fig., 1 tab.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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Synthesis, crystal structure and spectral properties Me(OH)(HCOO)₂ (Me=Al, Ga) S37

Tyutyunnik, A.P.; Krasil'nikov, V.N.; Baklanova, I.V.; Berger, I.F.; Zubkov, V.G. (IKhTT UrO RAN, Ekaterinburg (RU))

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Sintez, kristallicheskaya struktura i spektral'nye svoystva Me(OH)(HCOO)₂ (Me = Al, Ga)

p. 306-308

(RU)

5 refs., 4 figs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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CHEMICAL REACTIONS; MONOCLINIC LATTICES; LATTICE PARAMETERS; INFRARED
SPECTRA; RAMAN SPECTRA; EMISSION SPECTRA

X-ray determination of the (NH₄)₂VO(SO₄)₂ and Pb₂Cd₂(V₃O₁₀)(VO₄) crystal structures using direct methods

S37

Tyutyunnik, A.P.; Krasil'nikov, V.N.; Zhuravlev, V.D.; Lobachevskaya, N.I.; Baklanova, I.V. (IKhTT UrO RAN, Ekaterinburg (RU))

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Rentgenograficheskoe opredelenie kristallicheskoj struktury (NH₄)₂VO(SO₄)₂ i

Pb₂Cd₂(V₃O₁₀)(VO₄) s ispol'zovaniem pryamykh metodov

p. 309-310

(RU)

4 refs., 2 figs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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COMPOUNDS; CHEMICAL COMPOSITION; MONOCLINIC LATTICES; LATTICE PARAMETERS;
X-RAY DIFFRACTION; STRUCTURAL CHEMICAL ANALYSIS; TRICLINIC LATTICES

Charge states of cations in nanostructured cobaltites GdBaCo₂O₅+ δ , studied by X-ray absorption spectroscopy

S37

Udintseva, M.S. (Ural'skij Gosudarstvennyj Univ. Putej Soobshcheniya UrGUPS, Ekaterinburg (RU)), e-mail: Udintseva_m@mail.ru; Mesilov, V.V.; Galakhov, V.R.; Gizhevskij, B.A.; Shamin, S.N.; Naumov, S.V.; Telegin, S.V. (Inst. Fiziki Metallov im. M.N. Mikheeva UrO RAN, Ekaterinburg (RU))

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Zaryadovye sostoyaniya kationov v nanostrukturirovannykh kobal'titakh $GdBaCo_{20}O_{5+\delta}$, issledovannye metodom rentgenovskoj absorptsionnoj spektroskopii

p. 311-313

(RU)

5 refs., 2 figs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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GADOLINIUM COMPOUNDS; BARIUM COMPOUNDS; COBALT COMPOUNDS; OXYGEN COMPOUNDS; NANOSTRUCTURES; X-RAY SPECTRA; ABSORPTION SPECTRA; CRYSTAL STRUCTURE; DEFORMATION

Effect of heat treatment on the structure and properties of the highly entropy alloy

AlCoCrFeNi

S36

Uporova, N.S.; Mikhajlov, V.A.; Palitsyna, A.A. (UrGPU, Novosibirsk (RU)); Bykov, V.A.; Pryanichnikov, S.V.; Uporov, S.A. (IMET UrO RAN, Ekaterinburg (RU))

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Mark#

Vliyanie termicheskoy obrabotki na strukturu i svojstva vysokoehtropijnogo splava AlCoCrFeNi

p. 314

(RU)

1 fig.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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Structural properties of LiMPO₄ monocrystals

S36

Urusova, N.V.; Semkin, M.A. (IEN UrFU, Ekaterinburg (RU)); Barykina, Yu.A. (IEN UrFU, Ekaterinburg (RU)); IKhTT UrO RAN, Ekaterinburg (RU)); Sim, Kh. (SNU, Seul (KR)); Kellerman, D.G. (IKhTT UrO RAN, Ekaterinburg (RU)); Pirogov, A.N. (IEN UrFU, Ekaterinburg (RU)); IFM UrO RAN, Ekaterinburg (RU))

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Strukturnye svojstva monokristallov LiMPO₄

p. 315-317

(RU)

5 refs., 1 fig., 1 tab.

M=Ni, Co, Mn

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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The influence of mechanical activation and parameters of synthesis on the properties of HfB₂-SiC coatings

S36

Utkin, A.V.; Bannykh, D.A.; Lozanov, V.V.; Baklanova, N.I. (IKhTTM SO RAN, Novosibirsk (RU))

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Vliyanie mekhanicheskoy aktivatsii i parametrov sinteza na svoystva pokrytij HfB₂-SiC

p. 318

(RU)

2 refs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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THERMOMECHANICAL TREATMENTS; STRUCTURAL CHEMICAL ANALYSIS

Crystallostructural phase transitions in a series of solid solutions $Sr_{2-x}Ni_{1-x}Mg_xMoO_6$

S37

Filonova, E.A.; Skutina, L.S.; Mel'nikova, A.A.; Ivanov, I.L.; Grzhegorzhevskij, K.V. (GOU VO Ural'skij Federal'nyj Univ., Ekaterinburg (RU))

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Kristallostrukturnye fazovye perekhody v ryadu tverdykh rastvorov $Sr_{2-x}Ni_{1-x}Mg_xMoO_6$
p. 319-321

(RU)

3 refs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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SOLID SOLUTIONS; STRONTIUM OXIDES; NICKEL OXIDES; MAGNESIUM OXIDES;
MOLYBDENUM OXIDES; CHEMICAL COMPOSITION; DOPED MATERIALS; CRYSTAL-PHASE
TRANSFORMATIONS; TEMPERATURE RANGE 0400-1000 K; STRUCTURAL CHEMICAL
ANALYSIS

Synthesis and vibrational spectra $5CaO \cdot 4MeO \cdot (VO_4)_6$, Me=Mg, Zn

S37

Khazieva, A.N. (UrFU im. Pervogo Prezidenta Rossii B.N. El'tsina, Ekaterinburg (RU)); Tolkacheva, A.S. (UrFU im. Pervogo Prezidenta Rossii B.N. El'tsina, Ekaterinburg (RU)); Inst. Vysokotemperaturnoj Ehlektrokhimii UrO RAN, Ekaterinburg (RU)); Shkerin, S.N. (Inst. Vysokotemperaturnoj Ehlektrokhimii UrO RAN, Ekaterinburg (RU))

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Sintez i kolebatel'nye spektry $5\text{CAO} \cdot 4\text{MeO} \cdot (\text{VO}_4)_6$, Me=Mg, Zn

p. 322-324

(RU)

3 refs., 2 figs.

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VANADATES; CALCIUM COMPOUNDS; MAGNESIUM COMPOUNDS; ZINC COMPOUNDS; CHEMICAL PREPARATION; AQUEOUS SOLUTIONS; CALCINATION; TEMPERATURE RANGE 0400-1000 K; RAMAN SPECTRA

Synthesis of $\text{SrTi}_x\text{Zr}_{1-x}\text{O}_3$ by burning solutions with glycine and high-temperature electric conductivity

S36

Khaliullin, Sh.M.; Ermakova, L.V.; Bamburov, V.G. (IKhTT UrO RAN, Ekaterinburg (RU))

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Sintez $\text{SrTi}_x\text{Zr}_{1-x}\text{O}_3$ gorenem rastvorov s glitsinom i vysokotemperaturnaya ehlektroprovodnost'

p. 325-326

(RU)

3 refs., 1 fig.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

CHEMICAL COMPOSITION; GLYCINE; STRONTIUM TITANATES; ZIRCONATES; CHEMICAL PREPARATION; ELECTRIC CONDUCTIVITY; ANNEALING; TEMPERATURE RANGE 0400-1000 K

The influence of electron beam treatment on the structure of copper grade M1 in atmosphere of argon

S77

Khartaeva, Eh.Ch.; Bardakhanov, S.P.; Nomoev, A.V.; Zobov, K.N.; Zav'yalov, A.P.; Radnaev, A.R. (IFM SO RAN, Ulan-Udeh (RU); FGBOU VO BGU, Ulan-Udeh (RU); ITPM SO RAN, Novosibirsk (RU))

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Vliyanie ehlektronno-puchkovej obrabotki v atmosfere argona na strukturu medi marki M1

p. 327

(RU)

4 refs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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 368 p.

COPPER ALLOYS; NANOSTRUCTURES; ELECTRON BEAM MELTING; MICROSTRUCTURE;
 ARGON; METALLOGRAPHY; SCANNING ELECTRON MICROSCOPY

Effect of irradiation with argon and oxygen ions on the structure and properties of yttrium-stabilized zirconia

S36

Khromushin, I.V.; Aksenova, T.I.; Tuseev, T.T. (RGP IYaF RK, Almaty (KZ)); Ermolaev, V.N.; Ermolaev, Yu.V.; Seitov, A.S. (KazNTU im. K. Satpaeva, Almaty (KZ))

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Vliyanie oblucheniya ionami argona i kisloroda na strukturu i svojstva stabilizirovannogo itriem dioksida tsirkoniya

p. 328-329

(RU)

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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ZIRCONIUM OXIDES; YTTRIUM OXIDES; ARGON IONS; RADIATION EFFECTS; OXYGEN IONS;
 CERAMICS; CRYSTAL LATTICES; ELECTRIC IMPEDANCE; ELECTRIC CONDUCTIVITY;
 THERMAL GRAVIMETRIC ANALYSIS

Synthesis, structure and dielectric properties of layered perovskite-like oxides (Ln,Sr)_{n+1}(M,M')_nO_{3n+1} (Ln=La, Pr, Nd, M, M'=Ni, Mn, Ti, Co, Cu)

S37

Chupakhina, T.I.; Kadyrova, N.I. (Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU)); Mel'nikova, N.V.; Yakovleva, E.A.; Nikitina, Yu.A. (Ural'skij Federal'nyj Univ., Ekaterinburg (RU))

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Sintez, struktura i dielektricheskie svoystva sloistyx perovskitopodobnykh oksidov (Ln,Sr)_n+₁(M,M')_nO₃+₁ (Ln = La,Pr,Nd, M,M' = Ni,Mn,Ti,Co,Cu)

p. 330-332

(RU)

3 refs., 1 fig.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

CERAMICS; SOLID SOLUTIONS; STRONTIUM OXIDES; RARE EARTH COMPOUNDS; TRANSITION ELEMENT COMPOUNDS; CHEMICAL COMPOSITION; PERMITTIVITY; HEAT TREATMENTS

Electrochemical hydrogen evolution on REN₂Ge₂ in acidic and alkaline solutions

S37

Shein, A.B.; Kichigin, V.I. (Permskij Gosudarstvennyj Natsional'nyj Issledovatel'skij Univ., Perm' (RU))

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Ehlektrokhimicheskoe vydelenie vodoroda na REN_i₂Ge₂ v kislykh i shchelochnykh rastvorakh

p. 333-335

(RU)

1 ref.

RE=Y, La, Pr, Nd

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

INTERMETALLIC COMPOUNDS; RARE EARTH COMPOUNDS; NICKEL COMPOUNDS; GERMANIUM COMPOUNDS; CHEMICAL COMPOSITION; ALLOYS; ABSORPTION; HYDROGEN; CHEMICAL REACTION KINETICS

Mechanical and dynamic stability of non-stoichiometric 3C-Si_xC_y

S36

Shein, I.R. (IKhTT UrO RAN, Ekaterinburg (RU))

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Mekhanicheskaya i dinamicheskaya ustojchivost' neskhekhimicheskikh 3C-Si_xC_y

p. 336

(RU)

1 fig.

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368 p.

SILICON CARBIDES; CARBON; DENSITY FUNCTIONAL METHOD; POINT DEFECTS; SILICON; STOICHIOMETRY; MECHANICAL PROPERTIES

Quantum-chemical modeling of the steric effects influence on the packaging of organic cations Cat^{n+} in perovskites $CatPbI_3$

S37

Shestakov, A.F. (IPKhF RAN, Chernogolovka (RU))

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Kvantovo-khimicheskoe modelirovanie vliyaniya stericheskikh ehffektov na upakovku organicheskikh kationov Cat^{n+} v perovskitakh $CatPbI_3$

p. 337

(RU)

1 ref., 2 figs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

DENSITY FUNCTIONAL METHOD; METHYLAMINE; LEAD IODIDES; HYDROGEN IODIDES; CLUSTER MODEL; MOLECULAR STRUCTURE

New approaches to obtaining ceramic composite materials and protective silicon carbide based coatings

S36

Shikunov, S.L.; Ershov, A.E.; Kurlov, V.N. (IFTT RAN, Chernogolovka, Moskovskaya Obl. (RU))

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Novye podkhody k polucheniyu keramicheskikh kompozitsionnykh materialov i zashchitnykh pokrytij na osnove karbida kremniya

p. 338-340

(RU)

4 figs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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368 p.

CERAMICS; SILICON CARBIDES; SILICON; CARBON; PROTECTIVE COATINGS; MICROSTRUCTURE; COMPOSITE MATERIALS

The effect of iron concentration on the chemical bond in Fe_xTiSe₂

S37

Shkvarina, E.G.; Shkvarin, A.S.; Yarmoshenko, Yu.M. (IFM UrO RAN, Ekaterinburg (RU)); Merentsov, A.I.; Velikanova, T.V. (UrFU im. B.N. El'tsina, Ekaterinburg (RU)); Suslov, E.A.; Brezhestovskikh, M.S. (IVTEh UrO RAN, Ekaterinburg (RU)); Titov, A.N. (IFM UrO RAN, Ekaterinburg (RU)); UrFU im. B.N. El'tsina, Ekaterinburg (RU))

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Vliyanie kontsentratsii zheleza na khimicheskuyu svyaz' v Fe_xTiSe_2
p. 341
(RU)

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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TITANIUM SELENIDES; IRON; MOLECULAR STRUCTURE; CHEMICAL BONDS; ION IMPLANTATION; ELECTROMOTIVE FORCE; CHEMICAL COMPOSITION; CHARGE TRANSPORT

The structure and properties of nanocomposites based on the system ZrO₂-Al₂O₃ S77

Shuklina, A.I.; Al'myasheva, O.V. (SPbGEhTU #Left-Pointing Double Angle Quotation Mark#LEhTI#Right-Pointing Double Angle Quotation Mark#, Sankt-Peterburg (RU))

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Stroenie i svoystva nanokompozitov na osnove sistemy ZrO₂-Al₂O₃

p. 342

(RU)

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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ZIRCONIUM OXIDES; ALUMINIUM OXIDES; NANOCOMPOSITES; HYDROTHERMAL SYNTHESIS; HEAT TREATMENTS; TEMPERATURE RANGE 0400-1000 K; ABUNDANCE; CONCENTRATION RATIO; DENSITY

Actual problems of flashing of hydrogen-containing vapor-gas mixtures under conditions typical for severe accidents at WWER NPPs

S21

Shul'ts, O.V.; Bochkareva, A.A. (FGUP #Left-Pointing Double Angle Quotation Mark#RFYaTs-VNIITF im. Akademika E.I. Zababakhina#Right-Pointing Double Angle Quotation Mark#, Snezhinsk (RU))

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Vserossijskaya konferentsiya #Left-Pointing Double Angle Quotation Mark#Khimiya tverdogo tela i funktsional'nye materialy - 2016#Right-Pointing Double Angle Quotation Mark#, XI seminar #Left-Pointing Double Angle Quotation Mark#Termodinamika i materialovedenie#Right-Pointing Double Angle Quotation Mark#

Aktual'nye voprosy vosplamneniya vodorodsoderzhashchikh parogazovykh smesey v usloviyakh, kharakternykh dlya tyazhelykh avarij na AEhS VVEhR

p. 343-345

(RU)

8 refs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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ISBN 978-5-7691-2444-0

Ekaterinburg (RU)
IKhTT UrO RAN

2016

368 p.

WWER TYPE REACTORS; REACTOR SAFETY; NUCLEAR POWER PLANTS; HYDROGEN;
PRESSURE RANGE KILO PA; TEMPERATURE RANGE 0273-0400 K; TEMPERATURE RANGE 0400-
1000 K; FLASHING

Solid electrolytes based on lithium zirconate for a solid-phase current source

S37

Shchelkanova, M.S.; Pantyukhina, M.I.; Suslov, E.A.; Shevelin, P.Yu. (IVTEh UrO RAN, Ekaterinburg (RU))

All-Russian Conference #Left-Pointing Double Angle Quotation Mark#Solid state chemistry and functional materials - 2016#Right-Pointing Double Angle Quotation Mark#, XI Seminar #Left-Pointing Double Angle Quotation Mark#Thermodynamics and materials science#Right-Pointing Double Angle Quotation Mark#

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Tverdye ehlektrolity na osnove tsirkonata litiya dlya tverdofaznogo istochnika toka

p. 346-348

(RU)

4 refs., 1 fig.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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2016

368 p.

SOLID ELECTROLYTES; ZIRCONATES; LITHIUM COMPOUNDS; ELECTRIC BATTERIES;
ELECTRIC CONDUCTIVITY; LITHIUM IONS; TEMPERATURE RANGE 0400-1000 K; CERAMICS;
SOLID SOLUTIONS

Hydrochemical deposition of films PbSe in the presence of ascorbic acid

S37

Yurk, V.M.; Smirnova, Z.I.; Ustyugova, V.S.; Ibragimova, Z.M.; Maskaeva, L.N.; Markov, V.F. (UrFU imeni Pervogo Prezidenta Rossii B.N. El'tsina, Ekaterinburg (RU))

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 Hidrokhimicheskoe osazhdenie plenok PbSe v prisutstvii askorbinovoj kisloty
 p. 349-351
 (RU)
 4 refs., 1 fig.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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 ISBN 978-5-7691-2444-0

Ekaterinburg (RU)
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 2016
 368 p.

LEAD SELENIDES; THIN FILMS; HYDROLYSIS; ASCORBIC ACID; CHEMICAL REACTION KINETICS; PH VALUE; NANOSTRUCTURES; SEMICONDUCTOR MATERIALS

Ion exchange and proton conductivity of composite membranes based on polyimonic acid and polyvinyl alcohol

S36
Yaroshenko, F.A.; Kovalenko, L.Yu.; Burmistrov, V.A. (FGBOU VO #Left-Pointing Double Angle Quotation Mark#ChelGU#Right-Pointing Double Angle Quotation Mark#, Chelyabinsk (RU))

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Ionnyj obmen i protonnaya provodimost' kompozitnykh membran na osnove polisur'myanoj kisloty i polivinilovogo spirta
 p. 352-354

(RU)
 5 refs., 3 figs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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COMPOSITE MATERIALS; INORGANIC ACIDS; PVA; ION EXCHANGE; PROTON CONDUCTIVITY; MEMBRANES; PERMITTIVITY; TEMPERATURE DEPENDENCE; TEMPERATURE RANGE 0065-0273 K; TEMPERATURE RANGE 0273-0400 K

The crystal structure and dynamics of the lattice in $RFe_3(BO_3)_4$ ($R=La - Lu$) ferroborates

S37

Chernyshev, V.A.; Petrov, V.P.; Nikiforov, A.E. (UrFU, Ekaterinburg (RU))

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Kristallicheskaya struktura i dinamika reshetki ferroboratov $RFe_3(BO_3)_4$ ($R = La - Lu$)

p. 355

(RU)

3 refs.

Rossijskaya Akademiya Nauk, Moscow (RU); Ural'skoe Otdelenie RAN, Ekaterinburg (RU); Federal'noe Agentstvo Nauchnykh Organizatsij, Moscow (RU); Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU); Inst. Neorganicheskoy Khimii im. A.V. Nikolaeva SO RAN, Novosibirsk (RU)

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2016
368 p.

RARE EARTH COMPOUNDS; IRON COMPOUNDS; BORATES; CHEMICAL COMPOSITION;
DENSITY FUNCTIONAL METHOD; CRYSTAL LATTICES; ELECTRICAL PROPERTIES; MAGNETIC
PROPERTIES

Proceedings of school-conference of young scientists with international participation #Left-Pointing Double Angle Quotation Mark#Il'in readings#Right-Pointing Double Angle Quotation Mark#

S61

Federal'noe Mediko-Biologicheskoe Agentstvo, Moscow (RU); Federal'noe Gosudarstvennoe Byudzhethoe Uchrezhdenie #Left-Pointing Double Angle Quotation Mark#Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii #En Dash# Federal'nyj Meditsinskij Biofizicheskij Tsentr imeni A.I. Burnazyana#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)

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Moscow (RU)

22 Mar 2018

Shkola-konferentsiya molodykh uchenykh s mezhdunarodnym uchastiem #Left-Pointing Double Angle Quotation Mark#Il'inskie chteniya#Right-Pointing Double Angle Quotation Mark#

Sbornik trudov shkoly-konferentsii molodykh uchenykh s mezhdunarodnym uchastiem #Left-Pointing Double Angle Quotation Mark#Il'inskie chteniya#Right-Pointing Double Angle Quotation Mark#

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2018

158 p.

(RU)

LEADING ABSTRACT; MEETINGS; RADIATION PROTECTION; PERSONNEL; POPULATIONS;
RADIATION DOSES; ENVIRONMENT; NATURAL RADIOACTIVITY; RADIOPHARMACEUTICALS;
RADIOTHERAPY

In the collection of proceedings there are the works of participants of School-Conference of young scientists with international participation #Left-Pointing Double Angle Quotation Mark#Il'in readings#Right-Pointing Double Angle Quotation Mark# held in Moscow on March 22, 2018. In the abstracts the consideration is given to the prospects and the latest developments in various fields of radiation safety, hygiene, health physics, medicine, radiobiology and related disciplines

В сборник трудов вошли работы участников школы-конференции молодых ученых с международным участием #Left-Pointing Double Angle Quotation Mark#Ильинские чтения#Right-Pointing Double Angle Quotation Mark#, проходившей в Москве 22 марта 2018 г. Представлены краткие сообщения о перспективах и новейших достижениях в различных областях радиационной безопасности, гигиены, медицинской физики, медицины, радиобиологии и смежных дисциплинах

Evaluation of external irradiation at the plant personnel during dismantlement of nuclear maintenance ships

S61

Aref'eva, D.V.; Dokhov, M.A.; Vaulin, G.F.; Levanchuk, A.V. (FGUP NII PMM, Sankt-Peterburg (RU))

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Quotation Mark#Il'inskie chteniya#Right-Pointing Double Angle Quotation Mark#
Otsenka vneshnego oblucheniya u personala predpriyatiya pri utilizatsii sudov atomnogo
tekhnologicheskogo obsluzhivaniya
p. 14-16
(RU)
2 tabs.

Federal'noe Mediko-Biologicheskoe Agentstvo, Moscow (RU); Federal'noe Gosudarstvennoe
Byudzhetnoe Uchrezhdenie #Left-Pointing Double Angle Quotation Mark#Gosudarstvennyj
Nauchnyj Tsentr Rossijskoj Federatsii #En Dash# Federal'nyj Meditsinskij Biofizicheskij Tsentr
imeni A.I. Burnazyana#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)
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Mark#
Sbornik trudov shkoly-konferentsii molodykh uchenykh s mezhdunarodnym uchastiem #Left-
Pointing Double Angle Quotation Mark#Il'inskie chteniya#Right-Pointing Double Angle
Quotation Mark#
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2018
158 p.

PERSONNEL; NUCLEAR SHIPS; EXTERNAL IRRADIATION; RADIATION DOSES; RADIATION
DOSE DISTRIBUTIONS; RADIATION PROTECTION; COMPARATIVE EVALUATIONS

Selection of optimum schemes of thorium, uranium, neptunium, plutonium, americium extraction-chromatographic isolation from solutions when analyzing the environmental samples and bio-substrates

S38

*Astafurova, M.V. (Natsional'nyj Issledovatel'skij Univ. #Left-Pointing Double Angle Quotation
Mark#Vysshaya Shkola Ehkonomiki#Right-Pointing Double Angle Quotation Mark#, Moscow (RU));
Karaseva, K.A.; Karl, L.Eh. (FGUP Nauchno-Tekhnicheskij Tsentr Radiatsionno-Khimicheskoy Bezopasnosti
i Gigieny FMBA Rossii, Moscow (RU))*

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Vybor optimal'nykh skhem ehkstraksionno-khromatograficheskogo vydeleniya toriya, urana, neptuniya,
plutoniya, ameritsiya iz rastvorov pri analize ob"ektov okruzhayushchej sredy i biosubstratov

p. 16-18

(RU)

4 refs.

Federal'noe Mediko-Biologicheskoe Agentstvo, Moscow (RU); Federal'noe Gosudarstvennoe
Byudzhetnoe Uchrezhdenie #Left-Pointing Double Angle Quotation Mark#Gosudarstvennyj
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ENVIRONMENTAL MATERIALS; BIOLOGICAL MATERIALS; EXTRACTION
CHROMATOGRAPHY; THORIUM COMPLEXES; URANIUM COMPLEXES; NEPTUNIUM
COMPLEXES; PLUTONIUM COMPLEXES; AMERICIUM COMPLEXES; DISTRIBUTION
FUNCTIONS; TRACE AMOUNTS; ORGANIC PHOSPHORUS COMPOUNDS; AQUEOUS
SOLUTIONS; PURIFICATION; PH VALUE

Radiation safety assurance of population at rehabilitation of uranium legacy sites in the Russian Federation and Central Asian countries

S61;S54

Akhromeev, S.V.; Isaev, D.V.; Seregin, V.A.; Shandala, N.K.; Titov, A.V.; Semenova, M.P. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))

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Obespechenie radiatsionnoj bezopasnosti naseleniya pri reabilitatsii ploshchadok uranovogo naslediya v Rossijskoj Federatsii i v stranakh Tsentral'noj Azii

p. 18-20

(RU)

Federal'noe Mediko-Biologicheskoe Agentstvo, Moscow (RU); Federal'noe Gosudarstvennoe Byudzhetnoe Uchrezhdenie #Left-Pointing Double Angle Quotation Mark#Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii #En Dash# Federal'nyj Meditsinskij Biofizicheskij Tsentr imeni A.I. Burnazyana#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)
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158 p.

CONTROLLED AREAS; RUSSIAN FEDERATION; TAJIKISTAN; KYRGYZSTAN; URANIUM MINES;
ENVIRONMENT; DOSE RATES; GAMMA RADIATION; DOSIMETRY; POPULATION DENSITY;
RADIATION DOSES; RECOMMENDATIONS; LAND RECLAMATION; CONTAMINATION
REGULATIONS

Study of the radiation situation in the vicinity of nuclear legacy objects in the Russian Far East region under construction of the regional center of conditioning and long-term storage of solid radioactive wastes

S54;S12

Akhromeev, S.V.; Kiselev, S.M.; Gimadova, T.I.; Starinskij, V.G. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))

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Issledovanie radiatsionnoj obstanovki v rajone raspolozheniya ob"ektov yadernogo naslediya v dal'nevostochnom regione Rossii na eh tape stroitel'stva regional'nogo tsentra konditsionirovaniya i dolgovremennogo khraneniya tverdykh RAO

p. 20-22

(RU)

2 refs.

Federal'noe Mediko-Biologicheskoe Agentstvo, Moscow (RU); Federal'noe Gosudarstvennoe Byudzhetnoe Uchrezhdenie #Left-Pointing Double Angle Quotation Mark#Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii #En Dash# Federal'nyj Meditsinskij Biofizicheskij Tsentr imeni A.I. Burnazyana#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)
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RUSSIAN FEDERATION; SPENT FUELS; RADIOACTIVE WASTES; RADIOACTIVE WASTE FACILITIES; RADIOACTIVE WASTE STORAGE; LAND RECLAMATION; RADIATION PROTECTION; ENVIRONMENTAL QUALITY; GAMMA RADIATION; RADIATION DOSES

The risk of acute myocardial infarction in a cohort of the nuclear industry employees S61

Briks, K.V.; Azizova, T.V.; Grigor'eva, E.S. (FGUP Yuzhno-Ural'skij Inst. Biofiziki FMBA Rossii, Ozersk, Chelyabinskaya Obl. (RU))

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Risk zaboлеваemosti ostrym infarktomyokarda v kogorte rabotnikov atomnoj promyshlennosti

p. 22-23

(RU)

Federal'noe Mediko-Biologicheskoe Agentstvo, Moscow (RU); Federal'noe Gosudarstvennoe Byudzhetnoe Uchrezhdenie #Left-Pointing Double Angle Quotation Mark#Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii #En Dash# Federal'nyj Meditsinskij Biofizicheskij Tsentr imeni A.I. Burnazyana#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)
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PERSONNEL; NUCLEAR INDUSTRY; CHRONIC IRRADIATION; MYOCARDIAL INFARCTION;
RISK ASSESSMENT; COMPARATIVE EVALUATIONS

Methodological approaches to arrangement for functional status monitoring of operators of hazardous occupations

S97

Dolgov, A.A.; Terent'ev, I.N. (TsNII VVS Minoborony Rossii, Moscow (RU))

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Metodicheskie podkhody k organizatsii monitoringa funktsional'nykh sostoyanij operatorov opasnykh professij

p. 26-28

(RU)

8 refs.

Federal'noe Mediko-Biologicheskoe Agentstvo, Moscow (RU); Federal'noe Gosudarstvennoe Byudzhetnoe Uchrezhdenie #Left-Pointing Double Angle Quotation Mark#Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii #En Dash# Federal'nyj Meditsinskij Biofizicheskij Tsentr imeni A.I. Burnazyana#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)

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2018

158 p.

REACTOR OPERATORS; DIAGNOSIS; HEALTH HAZARDS; MATHEMATICAL MODELS

Evaluation of internal irradiation at the plant personnel during dismantlement of nuclear maintenance ships

S61

Aref'eva, D.V.; Dokhov, M.A.; Sternin, V.E.; Petushok, A.V. (FGUP NII PMM, Sankt-Peterburg (RU))

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Otsenka vnutrennego oblucheniya u personala predpriyatiya pri utilizatsii sudov atomnogo tekhnologicheskogo obsluzhivaniya

p. 28-30
(RU)

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PERSONNEL; NUCLEAR SHIPS; INTERNAL IRRADIATION; RADIATION DOSES; COMPARATIVE EVALUATIONS; WHOLE-BODY COUNTERS; CESIUM 137; RECOMMENDATIONS

Radon monitoring in childcare centers of Lermontov-city

S61

Zhukova, A.V. (RUDN, Moscow (RU))

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Monitoring sodержaniya radona v detskikh uchrezhdeniyakh goroda Lermontov

p. 30-33

(RU)

3 refs., 2 tabs.

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CHILDREN; BUILDINGS; RADON 222; CONTROLLED AREAS; RADIATION MONITORING; RADIATION DOSES; NATURAL RADIOACTIVITY; S CODES; SEASONAL VARIATIONS

Improvement of radioanalytical control techniques for their use in engineering and

environmental surveys on FMBA service territories**S38;S54**

Astafurova, M.V. (Natsional'nyj Issledovatel'skij Univ. #Left-Pointing Double Angle Quotation Mark#Vysshaya Shkola Ehkonomiki#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Karaseva, K.A.; Karl, L.Eh. (FGUP Nauchno-Tekhnicheskij Tsentr Radiatsionno-Khimicheskoy Bezopasnosti i Gigieny FMBA Rossii, Moscow (RU))

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Sovershenstvovanie radioanaliticheskikh metodov kontrolya dlya ikh ispol'zovaniya v inzhenerno-ekologicheskikh izyskaniyakh na territoriyakh, obsluzhivaemykh FMBA Rossii

p. 33-35

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4 refs.

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ALPHA DECAY RADIOISOTOPES; TECHNETIUM ISOTOPES; RADIOMETRIC ANALYSIS; EXTRACTION CHROMATOGRAPHY; ENVIRONMENTAL MATERIALS; PH VALUE; AQUEOUS SOLUTIONS

Particle size distribution and solubility of radioactive aerosols at production site of raw**UF_6****S61**

Karev, A.E. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))

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Dispersnyj sostav i rastvorimost' radioaktivnykh aehrozolej na proizvodstve syr'evogo UF_6

p. 35-37

(RU)

3 figs.

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RADIOACTIVE AEROSOLS; URANIUM HEXAFLUORIDE; RADIOACTIVITY; PARTICLE SIZE; DISTRIBUTION; LUNGS; SIMULATION; FUNCTIONAL MODELS; RADIATION DOSES

Monitoring of radon volumetric activity in public and residential buildings of Baley-city S61

Karl, L.Eh. (FGUP NTTs RKhBG FMBA Rossii, Moscow (RU))

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Monitoring ob'emnoj aktivnosti radona v obshchestvennykh i zhilykh zdaniyakh g. Balej

p. 37-40

(RU)

3 refs., 3 tabs.

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CONTROLLED AREAS; RADON 222; PUBLIC BUILDINGS; RESIDENTIAL BUILDINGS; NATURAL RADIOACTIVITY; RADIATION DOSES; COMPARATIVE EVALUATIONS; RADIATION PROTECTION; RECOMMENDATIONS; RADIATION MONITORING

Control of internal irradiation of individuals from PJSC #Left-Pointing Double Angle Quotation Mark#Machine-building plant#Right-Pointing Double Angle Quotation Mark# (PJSC #Left-Pointing Double Angle Quotation Mark#MBP#Right-Pointing Double Angle Quotation Mark#) personnel S61

Korneva, E.A.; Kukhta, B.A. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))
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Kontrol' vnutrennego oblucheniya otdel'nykh lits iz personala PAO #Left-Pointing Double Angle Quotation Mark#Mashinostroitel'nyj zavod#Right-Pointing Double Angle Quotation Mark# (PAO #Left-Pointing Double Angle Quotation Mark#MSZ#Right-Pointing Double Angle Quotation Mark#)
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(RU)
2 refs.

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PERSONNEL; NUCLEAR INDUSTRY; DOSIMETRY; DOSE COMMITMENTS; INTERNAL IRRADIATION; RADIATION DOSES; URINE; RADIOACTIVITY; EXTRACTION CHROMATOGRAPHY; DISTRIBUTION; ALPHA SPECTROSCOPY

Application of the decomposition technique of time series of ambient dose rate equivalent integral for regulatory supervision at nuclear legacy facility

S61
Tesnov, I.K.; Chizhov, K.A.; Kryuchkov, V.P. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))
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Primenenie metoda dekompozitsii vremennogo ryada integrala moshchnosti ambientnogo ehkvivalenta dozy v tselyakh reguliruyushchego nadzora na ob"ekte yadernogo naslediya
p. 42-45
(RU)
4 refs., 1 fig.

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DOSE RATES; DOSE EQUIVALENTS; RADIOMETRIC ANALYSIS; DATA PROCESSING; INTEGRALS; TIME-SERIES ANALYSIS; CONTROLLED AREAS; SEASONAL VARIATIONS; RADIATION PROTECTION; SPENT FUELS; RADIOACTIVE WASTES; PERSONNEL

Radiation safety must be based on adequate data of radiation epidemiology

S61

Tukov, A.R.; Biryukov, A.P.; Shafranskij, I.L. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))

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Radiatsionnaya bezopasnost' dolzhna stroit'sya na korrektnykh dannykh radiatsionnoj ehpidemiologii p. 45-47

(RU)

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RADIATION PROTECTION; SAFETY STANDARDS; RISK ASSESSMENT; BIOLOGICAL RADIATION EFFECTS; NEOPLASMS; IONIZING RADIATIONS; RADIATION DOSES; PERSONNEL; EXTERNAL IRRADIATION; DOSE COMMITMENTS

Measurement technique of positron lifetime spectra to assess carcinogenicity of chemical compounds

S74

Ugarova, O.A.; Akmalova, Yu.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. #Left-Pointing Double Angle Quotation Mark#MIFI#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Dubov, L.Yu. (Natsional'nyj Issledovatel'skij Yadernyj Univ. #Left-Pointing Double Angle Quotation Mark#MIFI#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Inst. Teoreticheskoy i Ehksperimental'noj Fiziki,

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Metodika izmereniya spektrov vremeni zhizni pozitronov dlya otsenki kantserogennoj aktivnosti khimicheskikh soedinenij

p. 47-49

(RU)

3 refs., 1 fig.

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POSITRON ANNIHILATION SPECTROSCOPY; CARCINOGENS; MATHEMATICAL MODELS; POSITRONIUM; LIFETIME; SPECTRA; CONFIGURATION; INHIBITION

Evaluation of radon hazard of some Shklov district settlements of Mogilev region by technique of integrated radon index

S61

Chekhovskij, A.L. (UO #Left-Pointing Double Angle Quotation Mark#Gomel'skij Gosudarstvennyj Univ. imeni F. Skoriny#Right-Pointing Double Angle Quotation Mark#, Gomel' (BY))

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Otsenka radonovoj opasnosti nekotorykh naseleennykh punktov Shklovskogo rajona Mogilevskoj oblasti metodom kompleksnogo radonovogo pokazatelya

p. 51-53

(RU)

4 refs.

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BELARUS; RADON; NATURAL RADIOACTIVITY; RISK ASSESSMENT; RADIATION DOSES; POPULATIONS; COMPARATIVE EVALUATIONS

High-performance cathodes of miniature X-ray sources

S62

Bratsuk, A.V.; Simonov, A.A. (FGUP #Left-Pointing Double Angle Quotation Mark#NII NPO #Left-Pointing Double Angle Quotation Mark#LUC#Right-Pointing Double Angle Quotation Mark#, Podol'sk (RU))

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Vysokoehffektivnye katody miniatyurnykh istochnikov rentgenovskogo izlucheniya

p. 54-55

(RU)

1 ref., 1 fig.

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BIOMEDICAL RADIOGRAPHY; X-RAY EQUIPMENT; X-RAY SOURCES; X RADIATION; CATHODES; DOSE EQUIVALENTS; COMPARATIVE EVALUATIONS

Development of procedure of ⁸⁹Zr separation and purification for radiopharmaceuticals

S38;S62

Bubenshchikov, V.B.; Larenkov, A.A. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))

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Razrabotka protsedury vydeleniya i ochistki ⁸⁹Zr dlya RFP

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(RU)

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ZIRCONIUM 89; RADIOPHARMACEUTICALS; ANTIBODIES; OXALATES; AQUEOUS SOLUTIONS; ION EXCHANGE CHROMATOGRAPHY; RESINS; PURIFICATION; ISOTONIC SOLUTIONS

Research on preparation of radiopharmaceutical composition based on radionuclide lutetium-177, as a stage of pharmaceutical development of radiopharmaceutical for neuroendocrine tumors treatment

S62

Dorovatovskij, S.A.; Zverev, A.V.; Loseva, S.V.; Derzskij, G.Eh. (Zavod #Left-Pointing Double Angle Quotation Mark#Medradiopreparat#Right-Pointing Double Angle Quotation Mark# Filial FGUP #Left-Pointing Double Angle Quotation Mark#Federal'nyj Tsentr po Proektirovaniyu i Razvitiyu Ob'ektov Yadernoj Meditsiny#Right-Pointing Double Angle Quotation Mark# FMBA Rossii, Moscow (RU))

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Nauchno-issledovatel'skaya rabota po prigotovleniyu radiofarmatsevticheskoy kompozitsii na osnove radionuklida lyutetsij-177 kak ehtap farmatsevticheskoy razrabotki radiofarmatsevticheskogo preparata dlya lecheniya nejroehndokrinnykh opukholej

p. 59-60

(RU)

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RADIOPHARMACEUTICALS; LUTETIUM 177; NEOPLASMS; DIAGNOSIS; BIOLOGICAL LOCALIZATION; PEPTIDES; LABELLING; THERAPY; RADIOTHERAPY

Pre-clinical evaluation of therapeutic potential of radiopharmaceutical on the base of albumin microspheres 5-10 #Greek Small Letter Mu#m with rhenium-188

S62

Krasnoperova, A.S.; Zhukova, M.V.; Klement'eva, O.E. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))

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Doklinicheskaya otsenka terapevticheskogo potentsiala radiofarmatsevticheskogo lekarstvennogo preparata na osnove mikrosfer al'bumina 5-10 mkm s reniem-188

p. 61-63

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RADIOPHARMACEUTICALS; RHENIUM 188; ALBUMINS; MICROSPHERES; BONE JOINTS; PAIN; THERAPY; RABBITS; COMPARATIVE EVALUATIONS

Good practices of radiopharmaceuticals preparation in medical establishments

S62

Konstantinov, N.A.; Malysheva, A.O.; Kodina, G.E. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))

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Nadlezhashchaya praktika izgotovleniya radiofarmatsevticheskikh preparatov v meditsinskikh organizatsiyakh

p. 65-66

(RU)

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RADIOPHARMACEUTICALS; SYNTHESIS; MEDICAL ESTABLISHMENTS; IMPURITIES; LEGAL ASPECTS; QUANTITATIVE CHEMICAL ANALYSIS; TECHNETIUM 99

PET-visualization of experimental tumor nidus expressed HER2 positive receptors S62

Lunev, A.S.; Klement'eva, O.E.; Luneva, K.A.; Lyamtseva, E.A.; Taratonenkova, N.A.; Malysheva, A.O. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))

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Spetsificheskaya PEhT-vizualizatsiya ehksperimental'nykh opukholevykh ochagov, ehkspressiruyushchikh HER2-polozhitel'nye retseptory

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(RU)

3 figs.

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MONOCLONAL ANTIBODIES; LABELLED COMPOUNDS; IODINE 124; CHEMICAL PREPARATION; CHEMICAL REACTION YIELD; NEOPLASMS; POSITRON COMPUTED TOMOGRAPHY; THYROID; DISTRIBUTION

Technique of ⁶⁷Ga-pharmaceuticals analysis by means of iTLC

S62

Makichyan, A.G.; Maruk, A.Ya.; Larenkov, A.A. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))

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Metod analiza radiofampreparatov s ⁶⁸Ga s pomoshch'yu iTLC

p. 69-70

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1 ref.

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GALLIUM 68; RADIOPHARMACEUTICALS; IMPURITIES; THIN-LAYER CHROMATOGRAPHY; EFFICIENCY

Single-photon emission computerized tomography synchronized with the electrocardiography - a new approach to evaluation of cardiovascular complications in patients before and after liver transplantation

S62

Malinovskaya, Yu.O. (GBUZ MO MONIKI im. M.F. Vladimirovskogo, Moscow (RU))

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Odnofotonnaya ehmissionnaya komp'yuternaya tomografiya, sinkhronizirovannaya s ehlektrokardiografiej - novyj podkhod k otsenke serdechno-sosudistykh oslozhnenij u patsientov do i posle transplantatsii pecheni p. 71-72

(RU)

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SINGLE PHOTON EMISSION COMPUTED TOMOGRAPHY; LABELLED COMPOUNDS;
TECHNETIUM 99; ELECTROCARDIOGRAMS; LIVER; LIVER CIRRHOSIS; TRANSPLANTS;
MYOCARDIUM; DIAGNOSIS

Investigation of technetium-99m labelling of exendin derivative using typical coligands **S62**

Mitrofanov, Yu.A. (RKhTU im. D.I. Mendeleeva, Moscow (RU)); Maruk, A.Ya. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))

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PEPTIDES; LABELLING; TECHNETIUM 99; IMPURITIES; HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY; SINGLE PHOTON EMISSION COMPUTED TOMOGRAPHY

Conditioning of $^{68}\text{Ge}/^{68}\text{Ga}$ generator eluate for ^{68}Ga -radiopharmaceutical preparation

S62
Rakhimov, M.G.; Larenkov, A.A.; Kodina, G.E. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))

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p. 74-75
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RADIOPHARMACEUTICALS; GALLIUM 68; POSITRON COMPUTED TOMOGRAPHY;
RADIOISOTOPE GENERATORS; LABELLING; RADIOCHROMATOGRAPHY;
CHROMATOGRAPHY; CHEMICAL REACTION YIELD; IMPURITIES

Development of the methods for photon capture therapy of malignant tumors in FSBI SRC Burnasyan FMBC of FMBA S62

Konobeev, I.A.; Fedotov, Yu.A.; Shejno, I.N. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU)); Lipengol'ts, A.A. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU)); Natsional'nyj Issledovatel'skij Yadernyj Univ. #Left-Pointing Double Angle Quotation Mark#MIFI#Right-Pointing Double Angle Quotation Mark#, Kafedra #Left-Pointing Double Angle Quotation Mark#Meditsinskaya Fizika#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Stepanova, E.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. #Left-Pointing Double Angle Quotation Mark#MIFI#Right-Pointing Double Angle Quotation Mark#, Kafedra #Left-Pointing Double Angle Quotation Mark#Meditsinskaya Fizika#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Razrabotka metodov foton-zakhvatnoj terapii zlokachestvennykh opukholej v FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii

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(RU)

4 refs., 1 fig.

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RADIOTHERAPY; NEOPLASMS; ATOMIC NUMBER; PHOTONS; HEAVY METALS; EFFICIENCY

Balance of efficacy and safety of radioiodine therapy of thyrotoxicosis. Personalized concept of therapy

S62

Trukhin, A.A. (FGAOU Vysshogo Obrazovaniya NIYaU #Left-Pointing Double Angle Quotation Mark#MIFI#Right-Pointing Double Angle Quotation Mark#, Moscow (RU); FGBU #Left-Pointing Double Angle Quotation Mark#NMITs Ehndokrinologii#Right-Pointing Double Angle Quotation Mark# Minzdrava RF, Moscow (RU)); Rumyantsev, P.O.; Sirota, Ya.I.; Slashchuk, K.Yu. (FGBU #Left-Pointing Double Angle Quotation Mark#NMITs Ehndokrinologii#Right-Pointing Double Angle Quotation Mark# Minzdrava RF, Moscow (RU))

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Balans ehffektivnosti i bezopasnosti radiojodterapii tireotoksikoza. Personalizirovannaya kontseptsiya lecheniya

p. 83-87

(RU)

1 ref., 5 figs.

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THYROID; RADIOTHERAPY; IODINE 131; HYPERTHYROIDISM; DOSE RATES; PATIENTS; RADIATION DOSES; EFFICIENCY

Assessment of dosimetry plans of radiotherapy using radiobiological effectiveness criteria

S62

Shejno, I.N.; Fedotov, Yu.A.; Bobrov, D.Yu.; Galyautdinova, Zh.Zh. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU)); Sukhikh, E.S. (Tomskij Oblastnoj Onkologicheskij Dispanser, Tomsk (RU)); Artemenkova, A.E. (Natsional'nyj Issledovatel'skij Yadernyj Univ. #Left-Pointing Double Angle

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 Otsenka dozimetricheskikh planov luchevoj terapii s ispol'zovaniem radiobiologicheskikh kriteriev ehffektivnosti
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 2 refs.

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RADIOTHERAPY; DOSIMETRY; PATIENTS; IRRADIATION; PLANNING; RADIATION DOSES; MATHEMATICAL MODELS; MAMMARY GLANDS; PROSTATE; NEOPLASMS

Development of proton beam therapy in Russia and in the world

S62

Stepanova, E.A.; Tsishnatti, A.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. #Left-Pointing Double Angle Quotation Mark#MIFI#Right-Pointing Double Angle Quotation Mark#, Kafedra #Left-Pointing Double Angle Quotation Mark#Meditsinskaya Fizika#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Fedotov, Yu.A.; Shejno, I.N. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))
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 Razvitie protonnoj luchevoj terapii v Rossii i mire
 p. 89-92
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 5 refs., 3 figs.

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RADIOTHERAPY; PROTON BEAMS; NEOPLASMS; ACCURACY; RADIATION DOSE DISTRIBUTIONS; RADIATION DOSES; MEDICAL ESTABLISHMENTS

Indicators of apoptotic death of lymphocytes in chronically irradiated individuals in long date

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Akleev, A.A. (FGBUN #Left-Pointing Double Angle Quotation Mark#Ural'skij Nauchno-Prakticheskij Tsentr Radiatsionnoj Meditsiny#Right-Pointing Double Angle Quotation Mark# FMBA Rossii, Chelyabinsk (RU); FGBOU VO #Left-Pointing Double Angle Quotation Mark#Yuzhno-Ural'skij Gosudarstvennyj Meditsinskij Univ.#Right-Pointing Double Angle Quotation Mark# Ministerstva Zdravookhraneniya Rossijskoj Federatsii, Chelyabinsk (RU)); Blinova, E.A. (FGBUN #Left-Pointing Double Angle Quotation Mark#Ural'skij Nauchno-Prakticheskij Tsentr Radiatsionnoj Meditsiny#Right-Pointing Double Angle Quotation Mark# FMBA Rossii, Chelyabinsk (RU); FGBOU VO #Left-Pointing Double Angle Quotation Mark#Chelyabinskij Gosudarstvennyj Univ.#Right-Pointing Double Angle Quotation Mark#, Chelyabinsk (RU))

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Pokazateli apoptoticheskoy gibeli limfotsitov u khronicheskii obluchennykh lits v otdalennye sroki

p. 94-96

(RU)

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Computer simulation of radiation damages in hippocampal neurons of rats

S63

Batmunkh, M.; Bugaj, A.N.; Bayarchimehg, L. (Lab. Radiatsionnoj Biologii, OIYaI, Dubna (XJ)); Lkhagva, O. (Natsional'nyj Univ. Mongolii, Ulan-Bator (MN))

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Komp'yuternoe modelirovanie radiatsionnykh povrezhdenij v nejronakh gippokampa krys

p. 98-100

(RU)

5 refs., 1 fig.

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RATS; HIPPOCAMPUS; IONIZING RADIATIONS; NERVE CELLS; MATHEMATICAL MODELS; BIOLOGICAL RADIATION EFFECTS

Physical and pharmacological ways of protection against corpuscular radiation

S61

Bulykina, T.M. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU); GNTs RF - IMBP RAN, Moscow (RU))

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Fizicheskie i farmakokhimicheskie sposoby zashchity ot korpuskulyarnogo izlucheniya

p. 100-101

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Efficiency of DNA repair in human blood cells after ^{60}Co gamma-radiation and UV-radiation

S63

Varganova, I.A.; Nikanorova, E.A.; Nagiba, V.I.; Medvedev, Ya.I.; Ivanov, K.Yu. (FGUP #Left-Pointing Double Angle Quotation Mark#RFYaTs - VNIIEhF#Right-Pointing Double Angle Quotation Mark#, Sarov (RU))

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Ehffektivnost' reparatsii DNK v kletkakh krovi cheloveka posle dejstviya gamma-izlucheniya ^{60}Co i UF-izlucheniya

p. 101-102

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DNA REPAIR; DNA DAMAGES; GAMMA RADIATION; ULTRAVIOLET RADIATION; BIOLOGICAL RADIATION EFFECTS; ELECTROPHORESIS; DOSE RATES; BLOOD CELLS

Study of change regularities of ^{228}Ac focuses number in proliferating and resting human dermal fibroblasts after the X-radiation effect at 0-1000 mGy doses

S63

Grekhova, A.K. (Inst. Biokhimicheskoy Fiziki im. N.M. Ehmanuehlya RAN, Moscow (RU); FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU)); Pustovalova, M.V.; Osipov, A.N. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))

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Issledovanie zakonomernostej izmeneniya kolichestva fokusov #gamma#N2AKh v proliferiruyushchikh i pokoyashchikhsya fibroblastakh kozhi cheloveka posle dejstviya rentgenovskogo izlucheniya v dozakh 0-1000 mGr
p. 104-105
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Primary research of dose dependence of translocation frequency using three-color FISH-method of chromosomes banding

S63

Dobrovol'skaya, E.I.; Nugis, V.Yu.; Kozlova, M.G.; Nikitina, V.A. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))

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Pervichnoe issledovanie dozovoj zavisimosti chastoty translokatsij s ispol'zovaniem trekhtsvetnogo FISH-metoda okrashivaniya khromosom

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S62

Egorova, D.A.; Churilova, I.V. (FGUP #Left-Pointing Double Angle Quotation Mark#Gos NII OChB#Right-Pointing Double Angle Quotation Mark# FMBA Rossii, Sankt-Peterburg (RU)); Terekhov, O.V. (OOO #Left-Pointing Double Angle Quotation Mark#Tsentr Reabilitatsii#Right-Pointing Double Angle Quotation Mark#, Obninsk (RU))

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Perspektivy primeneniya preparata Reksod" #Registered Sign# v kachestve radioprotektoynoj zashchity v radiatsionnoj meditsine

p. 107-110

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Relationship of interleukin gene polymorphisms with quantitative indicators of immune competent cells in people exposed to chronic radiation

S63

Kotikova, A.I.; Blinova, E.A. (Ural'skij Nauchno-Prakticheskij Tsentr Radiatsionnoj Meditsiny, Chelyabinsk (RU); Chelyabinskij Gosudarstvennyj Univ., Chelyabinsk (RU)); Akleev, A.A. (Ural'skij Nauchno-Prakticheskij Tsentr Radiatsionnoj Meditsiny, Chelyabinsk (RU)); Yuzhno-Ural'skij Gosudarstvennyj Meditsinskij Univ., Chelyabinsk (RU))

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Svyaz' polimorfizmov genov interlejkinov s kolichestvennymi pokazatelyami immunokompetentnykh kletok u lits, podvergshikhsya khronicheskomu radiatsionnomu vozdejstviyu
p. 110-112
(RU)

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Disregulatory changes of immunity at lung radiation-induced damages caused by regulatory T-cells activities

S62
Mushkarina, T.Yu.; Kuz'mina, E.G.; Konstantinova, T.V.; Sirotkina, N.P.; Kurasova, V.G. (MRNTs im. A.F. Tsyba #En Dash# Filial FGBU #Left-Pointing Double Angle Quotation Mark#NMITs Radiologii#Right-Pointing Double Angle Quotation Mark# Minzdrava Rossii, Obninsk (RU))

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Disregulyatornye izmeneniya immuniteta pri luchevykh povrezhdeniyakh legkikh, obuslovlennye funktsionirovaniem regulyatornykh T-kletok

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CORRELATIONS

Comparison of biological effects in mice exposed on #Left-Pointing Double Angle Quotation Mark#BION - M #Numero Sign#1#Right-Pointing Double Angle Quotation Mark# biosatellite and after experimental irradiation

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Nikitenko, O.V. (GNTs RF #En Dash# IMBP RAN, Moscow (RU); FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))

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Sravnenie biologicheskikh ehffektov u myshej, ehksponirovannykh na biosputnike #Left-Pointing Double Angle Quotation Mark#BION - M #Numero Sign#1#Right-Pointing Double Angle Quotation Mark#, i posle ehksperimental'nogo oblucheniya

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Early and delayed effects of X-radiation exposure in low and medium doses in mesenchymal stem cells of human bone marrow

S63

Pustovalova, M.V.; Osipov, A.N. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU); FGBU Nauki Inst. Khimicheskoy Fiziki im. N.N. Semenova RAN, Moscow (RU)); Grekhova, A.K. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU); FGBU Nauki Inst. Khimicheskoy Fiziki im. N.N. Semenova RAN, Moscow (RU)); FGBU Nauki Inst. Biokhimicheskoy Fiziki im. N.M. Ehmanuehlya RAN, Moscow (RU))

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 Rannie i otdalennye ehffekty vozdejstviya rentgenovskogo izlucheniya v maloj i srednej dozakh v mezenkhimal'nykh stvolovykh kletkakh kostnogo mozga cheloveka
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STEM CELLS; BONE MARROW CELLS; X RADIATION; LOW DOSE IRRADIATION; MILLI GY RANGE 100-1000; EARLY RADIATION EFFECTS; DELAYED RADIATION EFFECTS; COMPARATIVE EVALUATIONS

Study of morphological changes and morphometric parameters of Purkinje cells in rat cerebellum in long-term period after ^{125}C -ions irradiation

S63

Severyukhin, Yu.S. (Ob"edinennyj Inst. Yadernykh Issledovanij, Dubna (XJ); FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU)); Budennaya, N.N.; Timoshenko, G.N. (Ob"edinennyj Inst. Yadernykh Issledovanij, Dubna (XJ)); Ivanov, A.A. (Ob"edinennyj Inst. Yadernykh Issledovanij, Dubna (XJ); Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Inst. Mediko-Biologicheskikh Problem RAN, Moscow (RU); FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))

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 Issledovanie morfologicheskikh izmenenij i morfometricheskikh parametrov kletok Purkin'e mozzhechka krys v otdalennyj period posle oblucheniya ionami ugleroda ^{125}C
 p. 119
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 Proceedings of school-conference of young scientists with international participation #Left-Pointing Double Angle Quotation Mark#Il'in readings#Right-Pointing Double Angle Quotation Mark#
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 ISBN 978-5-905926-41-9

Moscow (RU)
 FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii
 2018
 158 p.

COSMIC RADIATION; SIMULATION; RATS; CEREBELLUM; CARBON 12 BEAMS; BIOLOGICAL RADIATION EFFECTS; NERVE CELLS; MORPHOLOGICAL CHANGES

Study of the effect of low-dose ionizing radiation on biological characteristics of human mesenchymal stem cells

S63

Usupzhanova, D.Yu.; Astrelina, T.A.; Nikitina, V.A. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU)) (and others)

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22 Mar 2018

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Izuchenie vliyaniya nizkikh doz ioniziruyushchego izlucheniya na biologicheskie kharakteristiki mezenkhimal'nykh stvolovykh kletok cheloveka

p. 119-121

(RU)

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IONIZING RADIATIONS; LOW DOSE IRRADIATION; MUCOUS MEMBRANES; STEM CELLS; BIOLOGICAL RADIATION EFFECTS; CHROMOSOMAL ABERRATIONS; RADIATION DOSES; COMPARATIVE EVALUATIONS

Change of frequency of radiation-induced chromosomal aberrations and CNA-genetic view of blood leukocytes of personnel after termination of occupational exposure

S63

Khalyuzova, M.V.; Usova, T.V.; Bronikovskaya, E.V. (Severskij Biofizicheskij Nauchnyj Tsentr FMBA Rossii, Seversk (RU)); Litvyakov, N.V. (Severskij Biofizicheskij Nauchnyj Tsentr FMBA Rossii, Seversk (RU)); NII Onkologii Tomskogo NIMTs, Tomsk (RU); Natsional'nyj Issledovatel'skij Tomskij Gosudarstvennyj Univ., Tomsk (RU)); Isubakova, D.S. (Severskij Biofizicheskij Nauchnyj Tsentr FMBA Rossii, Seversk (RU)); NII Onkologii Tomskogo NIMTs, Tomsk (RU)); Tsyganov, M.M. (NII Onkologii Tomskogo NIMTs, Tomsk (RU)); Takhauova, L.R. (Sibirskij Gosudarstvennyj Meditsinskij Univ., Tomsk (RU)); Karpov, A.B.; Takhauov, R.M. (Severskij Biofizicheskij Nauchnyj Tsentr FMBA Rossii, Seversk (RU)); Sibirskij Gosudarstvennyj Meditsinskij Univ., Tomsk (RU))

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Izmenenie chastoty radiatsionno-indutsirovannykh nestabil'nykh khromosomnykh aberratsij i CNA-geneticheskogo landshafta lejkotsitov krovi lits posle prekrashcheniya professional'nogo oblucheniya p. 121-123

(RU)

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OCCUPATIONAL EXPOSURE; PERSONNEL; LYMPHOCYTES; BIOLOGICAL RADIATION EFFECTS; CHROMOSOMAL ABERRATIONS; GENE AMPLIFICATION; GENETIC RADIATION EFFECTS; RADIATION DOSES; COMPARATIVE EVALUATIONS

Radiobiological analysis of prostate tumor IMRT dosimetric plans implementing the method of #Left-Pointing Double Angle Quotation Mark#simultaneous integrated boost#Right-Pointing Double Angle Quotation Mark#

S62

Artemenkova, A.E.; Sukhikh, E.A. (Tomskij Oblastnoj Onkologicheskij Dispanser, Tomsk (RU)); Fedotov, Yu.A.; Shejno, I.N. (Natsional'nyj Issledovatel'skij Yadernyj Univ. #Left-Pointing Double Angle Quotation Mark#MIFI#Right-Pointing Double Angle Quotation Mark#, Kafedra #Left-Pointing Double Angle Quotation Mark#Meditsinskaya Fizika#Right-Pointing Double Angle Quotation Mark#, Moscow (RU))

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Radiobiologicheskij analiz dozimetricheskikh planov IMRT opukholej prostaty, realizuyushchikh metod #Left-Pointing Double Angle Quotation Mark#odnovremennogo integrirovannogo busta#Right-Pointing Double Angle Quotation Mark#

p. 124-125

(RU)

3 refs.

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 2018
 158 p.

RADIOTHERAPY; RADIATION DOSES; PLANNING; PROSTATE; NEOPLASMS; COMPUTERIZED TOMOGRAPHY

Application of analytical model of dose nuclei of elementary photon radiation sources for radiation therapy

S62

Klimanov, V.A. (NIYaU MIFI, Moscow (RU); FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU)); Moiseev, A.N. (OOO #Left-Pointing Double Angle Quotation Mark#Medskan#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)); Kolyvanova, M.A. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))

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Primenenie analiticheskoy modeli dozovykh yader ehlementarnykh istochnikov fotonnogo izlucheniya dlya luchevoj terapii

p. 133-135

(RU)

5 refs.

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 158 p.

RADIOTHERAPY; RADIATION DOSE DISTRIBUTIONS; MATHEMATICAL MODELS; APPROXIMATIONS; COMPARATIVE EVALUATIONS; PHOTONS

Simulation of nanoparticle biokinetics in organism

S77

Kormazeva, E.S.; Solov'ev, V.Yu. (FGBU GNTs FMBTs im. A.I. Burnazyana FMBA Rossii, Moscow (RU))
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Shkola-konferentsiya molodykh uchenykh s mezhdunarodnym uchastiem #Left-Pointing Double Angle Quotation Mark#Il'inskie chteniya#Right-Pointing Double Angle Quotation Mark#
Modelirovanie biokinetiki nanochastits v organizme
p. 138-139
(RU)
6 refs.

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158 p.

NANOPARTICLES; NANOMATERIALS; BIOCHEMICAL REACTION KINETICS; MATHEMATICAL MODELS; ORGANS

Experience in development and study of magnetic nanoparticles for noninvasive MRT diagnostics

S77
Marchenko, Ya.Yu.; Agureeva, A.A.; Shirinkin, P.P.; Nikolaev, B.P.; Yakovleva, L.Yu. (FGUP #Left-Pointing Double Angle Quotation Mark#GosNII OChB#Right-Pointing Double Angle Quotation Mark# FMBA Rossii, Sankt-Peterburg (RU))
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Moscow (RU)
22 Mar 2018
Shkola-konferentsiya molodykh uchenykh s mezhdunarodnym uchastiem #Left-Pointing Double Angle Quotation Mark#Il'inskie chteniya#Right-Pointing Double Angle Quotation Mark#
Opyt razrabotki i izucheniya magnitnykh nanochastits dlya neinvazivnoj MRT diagnostiki
p. 141
(RU)
1 ref.

Federal'noe Mediko-Biologicheskoe Agentstvo, Moscow (RU); Federal'noe Gosudarstvennoe Byudzhetnoe Uchrezhdenie #Left-Pointing Double Angle Quotation Mark#Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii #En Dash# Federal'nyj Meditsinskij Biofizicheskij Tsentr imeni A.I. Burnazyana#Right-Pointing Double Angle Quotation Mark#, Moscow (RU)
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NANOPARTICLES; MAGNETIC MATERIALS; NUCLEAR MAGNETIC RESONANCE;
 COMPUTERIZED TOMOGRAPHY; DATA VISUALIZATION; NEOPLASMS; IRON OXIDES;
 PARTICLE SIZE

#Left-Pointing Double Angle Quotation Mark#RadioChem#Right-Pointing Double Angle Quotation Mark# application for specialists in the field of radiochemistry of transuranium elements

S38;S97

Spirov, R.K. (Gosudarstvennoe Nauchnoe Uchrezhdenie #Left-Pointing Double Angle Quotation Mark#Inst. Radiobiologii Natsional'noj Akademii Nauk Belarusi#Right-Pointing Double Angle Quotation Mark#, Gomel' (BY))

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Moscow (RU)

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Prilozhenie #Left-Pointing Double Angle Quotation Mark#RadioChem#Right-Pointing Double Angle Quotation Mark# dlya spetsialistov v oblasti radiokhimii transuranovykh ehlementov

p. 150-152

(RU)

1 ref., 1 fig.

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RADIOCHEMISTRY; TRANSURANIUM ELEMENTS; RADIOACTIVITY; RADIOCHEMICAL ANALYSIS; R CODES; DATA PROCESSING

Bulk electrolysis of cooling system water of production plants and NPP reactors and its impact on safety

S22

Kulakov, A.V.; Mel'nikov, V.P.; Papovyants, A.K (AO GNTs RF-FEhI imeni A.I. Lejpunskogo, Obninsk (RU)), E-mail: kulan07@yandex.ru; Rantsev-Kartinov, V.A. (NITs Kurchatovskij Inst., Moscow (RU))

Ob'emnyj ehlektroliz vody sistem okhlazhdeniya promyshlennykh predpriyatij i reaktorov AEhS i ego

vliyanie na bezopasnost'
p. 5-14
(RU)
19 refs.

Izvestiya Vysshikh Uchebnykh Zavedenij. Yadernaya Ehnergetika
ISSN 0204-3327
(2017)
(no.2)

NUCLEAR POWER; REACTOR SAFETY; COOLING SYSTEMS; ELECTROLYSIS; CORROSION
RESISTANCE; AGING

The paper presents a new theoretical model in the mechanism of NPP reactor cooling system pipelines' corrosion damage based on taking account of the formation of polarized surface layer of water at its interface with a solid body

В работе предложена новая теоретическая модель в механизме коррозионного повреждения трубопроводов систем охлаждения реакторов АЭС, основанная на учете формирования поляризованного поверхностного слоя воды на ее фазовой границе с твердым телом

Statistical data analysis of NPP equipment failures in non-homogeneous event flow. Part 2 **S22**

Antonov, A.V.; Chepurko, V.A. (Obninskij Inst. Atomnoj Ehnergetiki NIYaU MIFI, Obninsk (RU)), E-mail: antonov@iate.obninsk.ru

Statisticheskij analiz dannykh ob otkazakh oborudovaniya atomnykh stantsij v usloviyakh neodnorodnogo potoka sobytij. Chast' 2

p. 15-25
(RU)

20 refs., 4 figs.

Izvestiya Vysshikh Uchebnykh Zavedenij. Yadernaya Ehnergetika
ISSN 0204-3327
(2017)
(no.2)

NUCLEAR POWER; NUCLEAR POWER PLANTS; RELIABILITY; SYSTEM FAILURE ANALYSIS;
AGING; COMPUTER CALCULATIONS

The paper describes a method for estimating the NPP equipment reliability indices, which takes into account the possible failure flow non-homogeneity. The specificity of incoming statistical data on failures is noted. A description of the normalizing flow function model used for calculating the required reliability indices is also given

В работе описывается метод оценивания показателей надежности оборудования АЭС, позволяющий учитывать возможную неоднородность потока отказов. Отмечена специфика поступающих статистических данных об отказах. Описано применение модели, нормализующей функции потока, для расчета требуемых показателей надежности

Development of approaches for estimating the parameters of risk **S22**

Eliseeva, M.A. (AO TsKB Korall, Sevastopol' (RU)), E-mail: marysia_a_a@mail.ru; Malovik, K.N. (Sevastopol'skoe Regional'noe Otdelenie MOO Akademiya Problem Kachestva, Sevastopol' (RU))

Razvitie podkhodov k otsenivaniyu parametrov riska

p. 26-37

(RU)

18 refs., 5 figs., 1 tab.

Izvestiya Vysshikh Uchebnykh Zavedenij. Yadernaya Ehnergetika

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(no.2)

NUCLEAR POWER PLANTS; REACTOR SAFETY; SAFETY ANALYSIS; ACCIDENT MANAGEMENT; RISK ASSESSMENT; MATHEMATICAL MODELS

The paper presents features of estimating the sensitivity of risk and degree of risk and evolution of approaches for risk estimation at projection and operation of hazardous production facilities. Techniques of the analysis of Big Data for risk management are offered

В работе показаны особенности оценивания чувствительности риска и степени риска и эволюция подходов для его оценки при проектировании и эксплуатации опасных производственных объектов. Предложены методики анализа Big Data для менеджмента риска

Irradiated fuel assembly ^{235}U and ^{239}Pu non-destructive control methods comparative analysis at high gamma background level

S22
Kalenova, M.Yu.; Anan'ev, A.V.; Baskov, P.B.; Sklyarov, S.V. (AO Vedushchij Nauchno-Issledovatel'skij Inst. Khimicheskoy Tekhnologii, Moscow (RU)), E-mail: kalenovamu@yandex.ru

Sravnitel'nyj analiz nerazrushayushchikh metodov kontrolya ^{235}U i ^{239}Pu v konstruksionnykh materialakh pri vysokom urovne gamma-fona

p. 38-50

(RU)

21 refs., 5 figs., 4 tabs.

Izvestiya Vysshikh Uchebnykh Zavedenij. Yadernaya Ehnergetika

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(no.2)

REACTOR SAFETY; FISSILE MATERIALS; URANIUM 235; PLUTONIUM 239; COMPUTER CALCULATIONS; BACKGROUND RADIATION

Potentially possible methods for determining small amounts of fissile materials under high gamma background conditions are considered in this paper, and their comparison and choice of the most optimal variant of control of nuclear materials in spent fuel assemblies are made. Two types of detectors are compared: ^3He -counters and fission chambers based on ^{235}U

Рассмотрены потенциально возможные методы определения малых количеств делящихся материалов в условиях высокого гамма-фона, проведено их сравнение и выбор наиболее оптимального варианта контроля ядерных материалов в отработанных тепловыделяющих сборках. Проведено сравнение двух типов детекторов: ^3He -счетчики и камеры деления на основе ^{235}U

BFS: past, present and future

S21;S22

Dvukhsherstnov, V.G.; Zhukov, A.M.; Klinov, D.A.; Matveenko, I.P.; Pshakin, G.M. (AO GNTs RF-FEhI imeni A.I. Lejpunskogo, Obninsk (RU)), E-mail: bfs@ippe.ru

BFS - proshloe, nastoyashchee, budushchee

p. 51-60

(RU)

17 refs., 3 figs.

Izvestiya Vysshikh Uchebnykh Zavedenij. Yadernaya Ehnergetika

ISSN 0204-3327

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(no.2)

NUCLEAR POWER; FAST REACTORS; BELOYARSK-3 REACTOR; SAFETY; PHYSICAL PROTECTION; VOID COEFFICIENT; NUCLEAR MATERIALS MANAGEMENT

The paper describes a complex of large physical stands (BFS), which is currently unique and the only experimental tool in the world for full-scale simulating the nuclear reactors of various types. It is noted that the equipment of the BFS has been constantly updated, modernized and continues to improve during operation

В работе описывается комплекс больших физических стендов (БФС), который в настоящее время является уникальным и единственным в мире экспериментальным инструментом для полномасштабного моделирования ядерных реакторов различного типа. Отмечается, что оборудование БФС постоянно обновлялось, модернизировалось и продолжает совершенствоваться в процессе эксплуатации

Investigation of the structural condition of Fe-15Cr-35Ni-11W steel in irradiated ion-plasma flows

S36*Malynkin, V.G. (Obninskij Inst. Atomnoj Ehnergetiki NIYaU MIFI, Obninsk (RU)), E-mail:**malynkin@iate.obninsk.ru; Platonova, E.V. (AO GNTs RF-FEhI imeni A.I. Lejpunskogo, Obninsk (RU))**Rentgenograficheskoe issledovanie strukturnogo sostoyaniya vysokonikelevogo splava Fe-15Cr-35Ni-11W, obluchennogo ionno-plazmennymi potokami**p. 61-70*

(RU)

28 refs., 4 figs.

Izvestiya Vysshikh Uchebnykh Zavedenij. Yadernaya Ehnergetika

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MATERIALS; ALLOYS; FERRITIC STEELS; AUSTENITIC STEELS; DEFORMATION; X-RAY DIFFRACTION

Authors show that the concentration of packing defects in the alloy Fe-15Cr-35Ni-11W and the steel 0X18H10T in the deformed state was determined by the X-ray diffraction analysis. It was found that the concentration of packing defects in this state in steel 0X18H10T is 4 times higher, which indicates a lower packing defect energy Steel 0X18H10T

Авторы показывают, что методом рентгенографического анализа определены концентрации дефектов упаковки в сплаве Fe-15Cr-35Ni-11W и стали 0X18H10T в деформированном состоянии. Установлено, что концентрация дефектов упаковки в таком состоянии в стали 0X18H10T в четыре раза выше, что свидетельствует о более низкой энергии дефекта упаковки в этой стали

Genetic algorithms for nuclear reactor fuel loading and reloading optimization problems

S21;S97*Sobolev, A.V.; Samokhin, D.S. (Obninskij Inst. Atomnoj Ehnergetiki NIYaU MIFI, Obninsk (RU)), E-mail:**SobolevArtem82@gmail.com; Gazetdinov, A.S. (FBU NTTs YaRB, Moscow (RU))*

Geneticheskij algoritm v zadachakh optimizatsii zagruzki i peregruzok topliva yadernogo reaktora
p. 71-80
(RU)
22 refs., 2 figs.

Izvestiya Vysshikh Uchebnykh Zavedenij. Yadernaya Ehnergetika
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NUCLEAR POWER; WWER TYPE REACTORS; REACTOR CORES; REACTOR FUELING;
ALGORITHMS; CALCULATION METHODS; MATHEMATICAL SOLUTIONS

The paper discusses approaches to the use of a genetic algorithm for optimization of loading and subsequent overloads of fuel assemblies in the nuclear reactor core. The reason why the use of classical methods based on continuous scanning of phase space or gradient approaches cannot be acceptable is presented. The issues of choosing an optimization criterion are also discussed

В работе рассмотрены подходы к использованию генетического алгоритма для оптимизации загрузки и последующих перегрузок тепловыделяющих сборок в активной зоне ядерного реактора. Отмечается сложность использования классических методов, основанных на сплошном сканировании фазового пространства или градиентных подходах. Обсуждаются вопросы выбора критерия оптимизации, в качестве которого использована глубина выгорания топлива

Program code for three-dimensional calculation of output characteristics for single-cell thermionic fuel element of thermionic nuclear power plant for various purposes
S22;S97

Polous, M.A.; Solov'ev, D.I.; Yarygin, V.I (AO GNTs RF-FEhI imeni A.I. Lejpunskogo, Obninsk (RU)), E-mail: m.polous.a@gmail.com

Kompleks trekhmernogo rascheta vykhodnykh kharakteristik odnoelementnogo ehlektrogeneriruyushchego kanala termoehmisionnykh YaEhU razlichnogo naznacheniya

p. 81-92
(RU)
20 refs., 8 figs.

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NUCLEAR POWER PLANTS; THERMIONIC FUEL ELEMENTS; THERMIONIC REACTORS;
MATHEMATICAL MODELS; SIMULATION; FINITE ELEMENT METHOD

The paper presents the results of three-dimensional numerical modeling of thermal and electrical characteristics of a single-cell thermionic fuel element for a thermionic nuclear power plant as part of one possible autonomous low capacity nuclear power plants designs. These results were obtained using a technique developed on the basis of the modern software package COMSOL Multiphysics and named by the authors COMSOL-TFE-SC

В работе рассмотрены результаты трехмерного численного моделирования тепловых и электрических характеристик одноэлементного электрогенерирующего канала для термоэмиссионной ядерной энергетической установки в составе одного из возможных исполнений автономных атомных электростанций малой мощности, полученные с помощью методики, разработанной на базе современного программного кода COMSOL Multiphysics и названной авторами COMSOL-ЭГК-SC

Quadrature formulas for integral equations of kinetics and for digital reactimeters

S97

Yuferov, A.G. (Obninskij Inst. Atomnoj Ehnergetiki NIYaU MIFI, Obninsk (RU)), E-mail: anatolij.yuferov@mail.ru

Kvadraturnye formuly dlya integral'nykh uravnenij kinetiki i tsifrovyykh reaktimetrov

p. 93-105

(RU)

37 refs.

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MATHEMATICAL MODELS; EQUATIONS; LAPLACE TRANSFORMATION; QUADRATURES; KINETIC EQUATIONS; VOLTERRA INTEGRAL EQUATIONS; REACTIVITY; WWER TYPE REACTORS

The aim of the work is the derivation of quadrature formulas for a kinetic equations nuclear reactor in the form of Volterra integral equations of the second kind and for equation of a reactimeter in the form of integral convolution, the core of which is a function of decay of the delayed neutron precursors in the non-group form

Целью работы является вывод квадратурных формул для уравнений кинетики ядерного реактора в форме интегральных уравнений Вольтерры второго рода и уравнений реактиметра в форме интеграла свертки, ядром которого является функция распада предшественников запаздывающих нейтронов, представленная в негрупповом виде

Analysis of attractiveness of nuclear materials as applied to the on-site fuel cycle of naturally safe BR-1200 fast reactors

S21;S36

L'vova, E.M.; Chebeskov, A.N. (AO GNTs RF-FEhI imeni A.I. Lejpunskogo, Obninsk (RU)), E-mail: evgen@ippe.ru

Analiz privlekatel'nosti yadernykh materialov primenitel'no k pristantsionnomu toplivnomu tsiklu bystrogo reaktora estestvennoj bezopasnosti BR-1200

p. 106-117

(RU)

20 refs., 6 tabs.

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FUEL CYCLE; FAST REACTORS; MATERIALS; URANIUM NITRIDES; MIXED NITRIDE FUELS; BERYLLIUM; TUNGSTEN

This paper presents an analysis of fuel compositions in the fuel cycle of naturally safe BR-1200 fast reactors (BREST-1200) with an on-site nuclear fuel cycle infrastructure in terms of their attractiveness

В работе представлен анализ топливных композиций, которые рассматриваются в топливном цикле быстрого реактора естественной безопасности БР-1200 (БРЕСТ-1200) с пристанционной инфраструктурой ядерного топливного цикла, с точки зрения их привлекательности

The results of the transmutation of fission fragments in the spectrum of neutrons of thermal and fast reactors

S22

Ivanov, N.V.; Kazanskij, Yu.A.; Karpovich, G.V. (Obninskij Inst. Atomnoj Ehnergetiki NIYaU MIFI, Obninsk (RU)), E-mail: ivanovnik100@gmail.com

Rezultaty transmutatsii oskolkov deleniya v spektre nejtronov teplovogo i bystrogo reaktorov
p. 118-125

(RU)

13 refs., 4 figs.

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NUCLEAR POWER; FAST REACTORS; THERMAL POWER PLANTS; SPENT FUELS;
TRANSMUTATION; ACTINIDES; RADIOACTIVITY; NEUTRON SPECTRA

Three possible ways of irradiation of fission fragments are given in the paper: transmutation without cooling, cooling of fission fragments for four years before irradiation, cooling for 30 years before irradiation. The main conclusion: a special burning of fission fragments does not make sense, because non-significant gain in radioactivity (a little less than double) comes after a thousand years

В работе приведены три варианта облучения осколков деления: трансмутация без выдержки, выдержка осколков деления четыре года перед облучением, выдержка 30 лет перед облучением. Основной вывод - специальное выжигание осколков деления не имеет смысла, поскольку незначительный выигрыш в радиоактивности (чуть менее чем в два раза) наступает через тысячу лет

Technology of thermal welding with ultrasonic weld joint treatment as applied to NPP formworks

S36

Minin, S.I. (Obninskij Inst. Atomnoj Ehnergetiki - IATEh NIYaU MIFI, Obninsk (RU)), E-mail: akid@inbox.ru

Termicheskaya svarka alyuminievoj skol'zyashchej opalubki, primenyaemoj na stroitel'stve AEhS, s vozdejstviem ul'trazvuka

p. 126-133

(RU)

17 refs., 4 figs.

Izvestiya Vysshikh Uchebnykh Zavedenij. Yadernaya Ehnergetika
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MATERIALS; ALUMINIUM ALLOYS; ULTRASONIC WELDING; WELDED JOINTS;
MATHEMATICAL SOLUTIONS; PEIERLS-NABARRO FORCE

The paper describes an innovative technology of thermal welding with ultrasonic weld joint treatment as applied to aluminum sliding formworks used in NPP construction. The results of theoretical and experimental studies relating to the ultrasonic effects on the weld joints and heat-affected zone are presented

В работе предложена термическая сварка алюминиевой скользящей опалубки, применяемой на строительстве АЭС, с воздействием ультразвука. Приведены результаты теоретических и экспериментальных исследований воздействий ультразвука на сварной шов и околошовную зону

Experimental verification of neutron inelastic scattering cross section on iron

S73

Zhuravlev, B.V.; Titarenko, N.N. (AO GNTs RF-FEhI imeni A.I. Lejpunskogo, Obninsk (RU)), E-mail: zhurav@ippe.ru

Ehksperimental'noe testirovanie secheniya neuprugogo rasseyaniya nejtronov na zheleze

p. 134-144

(RU)

26 refs., 7 figs., 3 tabs.

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NEUTRON PHYSICS; NEUTRONS; SCATTERING; HAUSER-FESHBACH THEORY; NEUTRON SPECTRA; IRON

Authors present the experimental verification of neutron inelastic scattering cross section on iron on the basis of neutron inelastic spectra measurements at neutron incident energies of 6.0, 7.0 and 8.0 MeV and their calculations in the framework of nuclear reactions statistical theory and direct interaction

В работе представлены результаты тестирования сечения неупругого рассеяния нейтронов на железе, полученные при измерениях спектров неупруго рассеянных нейтронов при начальных энергиях 6, 7 и 8 МэВ, и численного моделирования в рамках статистической теории ядерных реакций и прямого взаимодействия

Plutonium in the locations of local sources and its involvement into global circulation

S12;S54

Bulgakov, V.G.; Gnilomedov, V.D.; Katkova, M.N.; Petrenko, G.I. (FGBU NPO Tajfun, Obninsk (RU));

Sorokina, A.S.; Synzynys, B.I. (IATEh NIYaU MIFI, Obninsk (RU)), E-mail: sorokina_91_2010@mail.ru

Plutonij v rajonakh raspolozheniya lokal'nykh istochnikov i ego вовлеченност' v global'nyuyu tsirkulyatsiyu

p. 145-156

(RU)

20 refs., 8 figs.

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ENVIRONMENTAL PROTECTION; RADIATION MONITORING; RADIONUCLIDE MIGRATION; POLLUTION; PLUTONIUM 239; PLUTONIUM 240

The paper considers the dynamics of volumetric activity in the areas under investigation from 1992 to 2015; the most polluted areas and the areas with the lowest content of plutonium isotopes in the atmospheric surface layer are specified. In the period under review, the volumetric activity of plutonium isotopes at all sites did not exceed the admissible volumetric activity in the air inhaled by population

На основе результатов специального исследования объемной активности изотопов плутония в пунктах наблюдения полярной и приполярной областей России, наиболее удаленных от локальных источников выбросов Pu в атмосферу, авторами показана существенно меньшая степень вовлеченности изотопов плутония в глобальную циркуляцию. За весь рассматриваемый период объемная активность изотопов плутония во всех исследуемых пунктах не превышала для населения допустимой объемной активности во вдыхаемом воздухе

Criteria of return on investment in nuclear energy

S29;S97

Kharitonov, V.V.; Kosterin, N.N. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: vkharitonov@mephi.ru

Kriterii okupaemosti investitsij v yadernuyu ehnergetiku

p. 157-168

(RU)

22 refs., 5 figs., 2 tabs.

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ECONOMICS; INVESTMENT; PAYBACK PERIOD; INTEREST RATE; INPUT-OUTPUT ANALYSIS; MATHEMATICAL MODELS; MONTE CARLO METHOD

Authors present criteria of recoupage of capital investments in nuclear energy power and industry. It is shown that the joint analysis of the entire set of investment efficiency criteria can help to avoid contradictions in assessing the NPP project profitability and formulate optimal requirements for reactor engineering and economic parameters

В работе представлены критерии окупаемости капитальных вложений в атомную энергетику и промышленность. В расчетах использована степенная функция дисконтирования денежных потоков. Показано, что совместный анализ всего комплекса критериев эффективности инвестиций позволит избежать противоречий в оценке прибыльности проекта АЭС

Development of the NRC #Left Double Quotation Mark#Kurchatov Institute#Right Double Quotation Mark# reactor experimental basis: starting with commissioning of F-1 reactor up to the 60-th anniversary of IR-8 reactor

S21

Koval'chuk, M.V.; Il'gisonis, V.I.; Shtrombakh, Ya.I.; Kurskij, A.S.; Andreev, D.V. (NITs #Left Double Quotation Mark#Kurchatovskij Inst.#Right Double Quotation Mark#, Moscow (RU))

Razvitie reaktornoj ehksperimental'noj bazy NITs #Left Double Quotation Mark#Kurchatovskij institut#Right Double Quotation Mark#: ot puska F-1 do 60-letiya reaktora IR-8

p. 4-16

(RU)

7 refs., 14 figs., 3 tabs.

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RESEARCH REACTORS; REACTOR EXPERIMENTAL FACILITIES; ARGUS REACTOR; WWER TYPE REACTORS; POOL TYPE REACTORS; NRC KURCHATOV INSTITUTE

The article presents the current state and prospects of development of the NRC #Left Double Quotation Mark#Kurchatov Institute#Right Double Quotation Mark# reactor experimental basis, including the research nuclear reactors and critical facilities

В работе представлены история, текущее состояние и перспективы развития реакторной базы НИЦ #Left Double Quotation Mark#Курчатовский институт#Right Double Quotation Mark#, включая исследовательские ядерные реакторы и критические стелды

Evolution of nuclear physical research at IR-8 reactor

S21;S97

Arzumanov, S.S.; Govor, L.I.; Demidov, A.M. (NITs #Left Double Quotation Mark#Kurchatovskij Inst.#Right Double Quotation Mark#, Moscow (RU))

Razvitie yaderno-fizicheskikh issledovanij na reaktore IR-8

p. 17-23

(RU)

26 refs.

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RESEARCH REACTORS; REACTOR EXPERIMENTAL FACILITIES; TEST FACILITIES; POOL TYPE REACTORS; MATHEMATICAL MODELS; NRC KURCHATOV INSTITUTE

The article presents basic trends of evolution of nuclear and physical research carried out at the Kurchatov Institut. This research became possible after commissioning in 1957 of the first pool type water-water research reactor

В работе представлены основные направления развития ядерно-физических исследований в Курчатовском институте, связанные с пуском в 1957 г. первого в стране водо-водяного реактора бассейнового типа

Beginning and continuation: history of neutron research in the field of solid state physics at IR-8 reactor

S73

Somenkov, V.A. (NITs #Left Double Quotation Mark#Kurchatovskij Inst.#Right Double Quotation Mark#, Moscow (RU))

Nachalo i prodolzhenie: k istorii nejtronnykh issledovanij po fizike tverdogo tela na reaktore IR-8

p. 24-32

(RU)

20 refs., 6 figs.

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NEUTRON PHYSICS; SOLID STATE PHYSICS; COLD NEUTRONS; NEUTRONS; IRRADIATION; NEUTRON SPECTRA

The article describes the history of the first experiments on solid-state physics at the IR-8 reactor. Examples of the most significant works, which were the basis for the development of new scientific directions in this field, are presented

В статье изложена история первых экспериментов по физике твердого тела на реакторе ИР-8. Приведены примеры наиболее существенных работ, являвшихся основой для развития новых научных направлений в этой области

Neutron Center of the NRC #Left Double Quotation Mark#Kurchatov Institute#Right Double Quotation Mark#: current status and perspectives

S73

Glazkov, V.P.; Somenkov, V.A.; Ehm, V.T. (NITs #Left Double Quotation Mark#Kurchatovskij Inst.#Right Double Quotation Mark#, Moscow (RU))

Kurchatovskij nejtronnyj tsentr: sovremennoe sostoyanie i perspektivy

p. 33-40

(RU)

12 refs., 9 figs.

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NEUTRON PHYSICS; COLD NEUTRONS; NEUTRONS; NEUTRON SPECTRA; SPECTROMETERS; THERMAL NEUTRONS

Authors discuss prospects for the development of the Kurchatov Neutron Center with the cold hydrogen source, neutron guides and new experimental facilities in the neutron guide and reactor halls on the basis of IR-8 reactor

В работе обсуждаются перспективы создания на базе реактора ИР-8 Курчатовского нейтронного центра с водородным холодным источником, нейтроноводами и новыми экспериментальными установками в нейтроноводном зале и в зале реактора

New challenges: from physics to medicine

S21

Glazkov, V.P.; Somenkov, V.A.; Kovalenko, E.S.; Borisova, P.A. (NITs #Left Double Quotation Mark#Kurchatovskij Inst.#Right Double Quotation Mark#, Moscow (RU))

Novye zadachi: ot fiziki do meditsiny

p. 41-48

(RU)

19 refs., 8 figs.

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RESEARCH REACTORS; REACTOR EXPERIMENTAL FACILITIES; BENCH-SCALE EXPERIMENTS; TEST FACILITIES; MATHEMATICAL MODELS; NRC KURCHATOV INSTITUTE

The present state of neutron studies at the IR-8 reactor is presented in the paper. Examples of research in the field of materials science, geology, archaeology and medicine are given, as well as studies of the substance under thermobaric effects and self-radiation

В работе рассматривается современное состояние нейтронных исследований на реакторе ИР-8. Приведены примеры исследований в области материаловедения, геологии, археологии и медицины, а также исследования вещества при термобарическом воздействии и самооблучении

Technique and methods for research of the experimental fuel elements with different fuel compositions at IR-8 reactor

S21

Yakovlev, V.V.; Erak, D.Yu.; Goncharov, L.A. (NITs #Left Double Quotation Mark#Kurchatovskij Inst.#Right Double Quotation Mark#, Moscow (RU)) (and others)

Tekhnika i metodika issledovanij v reaktore IR-8 opytnykh tvehlov s raznymi toplivnymi kompozitsiyami

p. 49-57

(RU)

7 refs., 8 figs.

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RESEARCH REACTORS; REACTOR CORES; FUEL ASSEMBLIES; FUEL ELEMENTS; URANIUM ALLOYS; NRC KURCHATOV INSTITUTE

The paper presents a substantiation of the feasibility of carrying out reactor tests on the basis of the results of neutron-physical, thermophysical and strength calculations performed on the IR-8 reactor. A description of these tests is also given

В работе представлено обоснование возможности проведения реакторных испытаний на основе анализа результатов нейтронно-физических, теплофизических и прочностных расчетов, осуществляемых на реакторе ИР-8. Дано описание этих испытаний

Technique and methods of structural materials testing at the IR-8 research reactor

S36

Yakovlev, V.V.; Erak, D.Yu.; Abramov, A.N. (NITs #Left Double Quotation Mark#Kurchatovskij Inst.#Right Double Quotation Mark#, Moscow (RU)) (and others)

Tekhnika i metody ispytaniy konstruktsionnykh materialov na issledovatel'skom reaktore IR-8

p. 58-64

(RU)

4 refs., 7 figs., 2 tabs.

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MATERIALS; COMPOSITE MATERIALS; MATERIALS TESTING; BUILDING MATERIALS; MATERIALS TESTING REACTORS; REACTOR CORES

The article presents information about irradiation basis for radiation material science at the IR-8 reactor. It is shown that the results of neutron-physical, thermophysical and strength calculations allowed justifying the possibility of testing structural materials in IR-8 reactor at given parameters

В работе представлены сведения об облучательной базе радиационного материаловедения на реакторе ИР-8. Показано, что анализ результатов нейтронно-физических, теплофизических и прочностных расчетов позволил обосновать возможность испытания конструкционных материалов на реакторе ИР-8 при заданных параметрах

Neutron spectra in the IR-8 reactor experimental channels

S73;S97

Nasonov, V.A.; Pesnya, Yu.E. (NITs #Left Double Quotation Mark#Kurchatovskij Inst.#Right Double Quotation Mark#, Moscow (RU))

Spektry nejtronov v ehksperimental'nykh kanalakh reaktora IR-8

p. 65-70

(RU)

5 refs., 8 figs., 5 tabs.

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NEUTRON PHYSICS; NEUTRONS; NEUTRON SPECTRA; NEUTRON FLUX; FLUX DENSITY;
REACTOR CORES; MONTE CARLO METHOD; CALCULATION METHODS

The article presents the irradiation characteristics for the equilibrium loads of the IR-8 reactor, which allow selecting channels for carrying out experimental studies at the required neutron flux density and estimating the irradiation time

В работе приведены облучательные характеристики для равновесных нагрузок реактора ИР-8, которые позволяют подобрать каналы для проведения экспериментальных исследований при требуемой плотности потока нейтронов и оценить время облучения

Computational justification of the possibility of the IR-8 operation cycle duration increasing

S22;S97

Nasonov, V.A.; Pesnya, Yu.E.; Kruglikov, A.E. (NITs #Left Double Quotation Mark#Kurchatovskij Inst.#Right Double Quotation Mark#, Moscow (RU))

Raschetnoe obosnovanie vozmozhnosti uvelicheniya dlitel'nosti tsikla raboty IR-8

p. 71-74

(RU)

3 refs., 3 figs., 2 tabs.

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POWER REACTORS; FUEL CYCLE; FUEL ASSEMBLIES; REACTOR FUELING; BURNUP;
COMPUTER CALCULATIONS; MONTE CARLO METHOD

The paper presents a calculation analysis of the possibility of increasing the fuel burn-up and the reactor fuel cycle duration. The generated power losses have been determined for the events of early fuel assemblies unload from the IR-8 reactor

В работе выполнен расчетный анализ возможности увеличения выгорания топлива и длительности цикла реактора. Определены потери энерговыработки при преждевременной выгрузке тепловыделяющих сборок из реактора ИР-8