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The Fifth International conference Deformation and fracture of materials and nanomaterials DFMN-2013. Conference proceedings

S36

Rossiyskaya Akademiya Nauk, Moscow (RU); Federal'noe Gosudarstvennoe Byudzhetnoe Uchrezhdenie Nauki Inst. Metallurgii i Materialovedeniya im. A.A. Bajkova RAN, Moscow (RU)

The Fifth International conference Deformation and fracture of materials and nanomaterials DFMN-2013

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26-29 Nov 2013

V Mezhdunarodnaya konferentsiya Deformatsiya i razrushenie materialov i nanomaterialov DFMN-2013

V Mezhdunarodnaya konferentsiya Deformatsiya i razrushenie materialov i nanomaterialov DFMN-2013. Sbornik materialov

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LEADING ABSTRACT; MEETINGS; DEFORMATION; FRACTURE PROPERTIES; NANOMATERIALS

The reports of the Fifth International Conference Deformation and fracture of materials and nanomaterials DFMN -2013, Moscow, 26-29 November 2013 are presented. The results of studies in the field of strength, deformation and fracture of materials and nanomaterials are discussed at the conference. Seminars and exhibition acquainting the participants and guests of the conference with the latest models of equipment for the study of the structure, the processes of deformation and fracture of materials and nanomaterials were conducted

Представлены доклады V Международной конференции Деформация и разрушение материалов и наноматериалов DFMN-2013, Москва, 26-29 ноября 2013 г. На конференции обсуждаются результаты исследований в области прочности, деформации и разрушения материалов и наноматериалов. Проведены семинары и выставка, знакомящие участников и гостей конференции с новейшими образцами оборудования для исследования структуры, процессов деформации и разрушения материалов и наноматериалов

Technologies for the formation of structure and properties of powder nanomaterials

S36

Alymov, M.I. (ISMAN, IMET RAN, Moscow (RU)), e-mail: alymov@ism.ac.ru

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Sagaradze, V.V. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU)), e-mail: vsagaradze@imp.uran.ru

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Andrievskij, R.A. (Inst. Problem Khimicheskoy Fiziki RAN, Chernogolovka (RU)), e-mail: ara@icp.ac.ru

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Bagmutov, V.P. (Volgogradskij Gosudarstvennyj Tekhnicheskij Univ., Volgograd (RU)), e-mail: sopromat@vstu.ru; Bogdanov, E.P. (Volgogradskij Gosudarstvennyj Agrarnyj Univ., Volgograd (RU)); Shkoda, I.A. (KTI (Filial VolgGTU), Kamyshin (RU))

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Bejgel'zimer, Ya.E.; Kulagin, R.Yu. (Donetskij Fiziko-Tekhnicheskij Inst. NAN Ukrainy im. A.A. Galkina, Donetsk (UA)), e-mail: yanbeygel@gmail.com, rkulagin@gmail.com

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Varavka, V.N.; Kudryakov, O.V.; Moiseeva, I.V.; Mitrin, B.I. (FGBOU VPO Donskoj Gosudarstvennyj Tekhnicheskij Univ., Rostov-na-Donu (RU)), e-mail: varavkavn@gmail.com

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*Vdovenko, A.V.; Strebkov, I.A.; Stolyarchuk, A.S. (Volgogradskij Gosudarstvennyj Tekhnicheskij
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Mustaf'eva, S.N.; Seidov, F.M.; Kyazimov, S.B. (Inst. Fiziki Natsional'noj Akademii Nauk Azerbajdzhana, Baku (AZ)), e-mail: solmust@gmail.com

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Mel'nikov, E.V.; Tukeeva, M.S.; Majer, G.G.; Astafurova, E.G. (FGBUN Inst. Fiziki Prochnosti i Materialovedeniya SO RAN, Tomsk (RU)), e-mail: melnickow-jenya@yandex.ru; Kretov, Yu.L.; Koshovkina, V.S. (Natsional'nyj Issledovatel'skij Tomskij Politehnicheskij Univ., Tomsk (RU))

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Naimi, E.K.; Suprun, I.T. (NITU MISiS, Moscow (RU)), e-mail: e.naimi@mail.ru, supruni@mail.ru

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Pal'-Val', P.P.; Pal'-Val', L.N. (Fiziko-Tekhnicheskij Inst. Nizkikh Temperatur im. B.I. Verkina NAN Ukrainy, Khar'kov (UA)), e-mail: palval@ilt.kharkov.ua; Davydenko, A.A.; Sennikova, L.F. (Donetskij Fiziko-Tekhnicheskij Inst. im. A.A. Galkina NAN Ukrainy, Donetsk (UA)), e-mail: dav76@ukr.net; Rybalko, A.P. (Khar'kovskij Natsional'nyj Ehkonomicheskij Univ., Khar'kov (UA)), e-mail: n_rybalko@yahoo.com

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*Raab, G.I.; Faizova, S.N. (Inst. Fiziki Perspektivnykh Materialov pri UGATU, Ufa (RU));
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*Rybal'chenko, O.V.; Dobatkin, S.V. (IMET RAN, Moscow (RU); NITU MISiS, Moscow (RU));
Terent'ev, V.F.; Prosvirnin, D.V. (IMET RAN, Moscow (RU)); Belyakov, A.N. (Belgorodskij
Gosudarstvennyj Univ., Belgorod (RU)); Raab, G.I. (UGATU, Ufa (RU)); Skrottski, V.
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*Terent'ev, V.F.; Dobatkin, S.V.; Rybal'chenko, O.V.; Prosvirnin, D.V. (IMET RAN, Moscow
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Tukeeva, M.S.; Mel'nikov, E.V.; Majer, G.G.; Astafurova, E.G. (FGBUN Inst. Fiziki Prochnosti i Materialovedeniya SO RAN, Tomsk (RU)), e-mail: tms@ispms.tsc.ru; Kretov, Yu.L.; Koshovkina, V.S. (Natsional'nyj Issledovatel'skij Tomskij Politekhnikeskij Univ., Tomsk (RU))

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Shabashov, V.A. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU)), e-mail: litvinov@imp.uran.ru

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DEFORMATION; MOESSBAUER EFFECT; IRON BASE ALLOYS; METALLURGICAL
EFFECTS

Effect of doping with hafnium on the structure and properties of ultrafine bronzes produced by equal channel angular pressing

S36

*Shan'gina, D.V.; Maksimenkova, Yu.M.; Dobatkin, S.V. (IMET RAN, Moscow (RU); NITU
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DFMN-2013

Vliyanie legirovaniya gafniem na strukturu i svojstva ul'tramelkozernistykh bronz, poluchennykh
metodom ravnokanal'nogo uglovogo pressovaniya

p. 220-221

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3 refs., 1 fig., 2 tabs.

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BRONZE; HAFNIUM ADDITIONS; PRESSING; MICROHARDNESS; AGING;
HARDENING; TEMPERATURE RANGE 0400-1000 K; ELECTRIC CONDUCTIVITY;
METALLURGICAL EFFECTS

Structure and properties of bioinert metals and their alloys after intensive plastic

deformation

S36

Sharkeev, Yu.P. (Inst. Fiziki Prochnosti i Materialovedeniya SO RAN, Tomsk (RU); NOTs Biosovmestimye Materialy i Bioinzheneriya pri TPU, SibGMU i IFPM SO RAN, Tomsk (RU)); Eroshenko, A.Yu.; Tolmachev, A.I.; Glukhov, I.A.; Uvarkin, P.V. (Inst. Fiziki Prochnosti i Materialovedeniya SO RAN, Tomsk (RU)); Kukareko, V.A. (Ob"edinennyj Inst. Mashinostroeniya NANB, Minsk (BY))

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Struktura i svojstva bioinertnykh metallov i ikh splavov posle intensivnoj plasticheskoj deformatsii

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DEFORMATION; TITANIUM BASE ALLOYS; ZIRCONIUM BASE ALLOYS; NIOBIUM BASE ALLOYS; NANOSTRUCTURES; PRESSING; MECHANICAL PROPERTIES

On structure of friction stir welded 01570 aluminum alloy sheets

S36

Avtokratova, E.V.; Il'yasov, R.R.; Sitdikov, O.Sh.; Markushev, M.V. (FGBUN Inst. Problem Sverkhplastichnosti Metallov RAN, Ufa (RU)), e-mail: avtkratova@imsp.ru, mymark@imsp.ru; Predko, P.Yu.; Nikitina, E.V. (Rossijskij Gosudarstvennyj Tekhnologicheskij Univ. imeni K.Eh. Tsiolkovskogo (MATI), Moscow (RU))

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Osobennosti struktury soedinenij listov iz alyuminievogo splava 01570, vpolnennykh svarkoj treniem s peremeshivaniem

p. 224-225

(RU)

4 refs., 1 fig.

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ALUMINIUM BASE ALLOYS; MAGNESIUM ALLOYS; MANGANESE ALLOYS;
SCANDIUM ALLOYS; ZIRCONIUM ALLOYS; FRICTION; WELDING;
MICROSTRUCTURE; NANOSTRUCTURES

Analytical properties and exact solutions of the Lotka-Volterra competition system

S97

Kudryashov, N.A.; Zakharchenko, A.S. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU))

Analiticheskie svoystva i tochnye resheniya sistemy uravnenij, opisyyvayushchikh model' Lotki-Vol'terry

p. 5-11

(RU)

21 refs., 6 figs.

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MATHEMATICS; MATHEMATICAL MODELS; MATHEMATICAL SOLUTIONS;
EQUATIONS; VOLTERRA INTEGRAL EQUATIONS; WEIERSTRASS FUNCTIONS

The system of nonlinear differential equations describing the Lotka-Volterra competition model with diffusion has been considered. The Painleve property of this reaction-diffusion system has been studied. Exact traveling wave solutions of the Lotka-Volterra competition system have been found. Periodic solutions expressed in terms of the Weierstrass elliptic function have also been determined

Рассматривается система уравнений, называемая моделью Лотки-Вольтерры, описывающая конкуренцию двух видов. Проводится Пенлеве-анализ данной системы. С помощью метода логистической функции находятся точные решения системы уравнений в виде бегущих волн. Находятся периодические решения, выраженные через эллиптическую функцию Вейерштрасса

Exact and quasi-exact solutions of the boundary layer equation for a radial steady flow of an incompressible fluid with full slipping

S97

Kudryashov, N.A.; Kochanov, M.B. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI,

Moscow (RU)

Tochnye i kvazitochnye resheniya zadachi osesimmetrichnogo statsionarnogo techeniya zhidkosti nad ploskim dnom pri polnom proskal'zyvanii

p. 12-18

(RU)

16 refs., 6 figs.

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MATHEMATICS; MATHEMATICAL MODELS; EXACT SOLUTIONS; AIRY FUNCTIONS; EQUATIONS

The system of partial differential equation for the description of the laminar, steady, axisymmetric flow of an incompressible fluid on a flat horizontal bottom has been derived. The impermeability condition and full slipping condition on the bottom have been used. The reduction of the initial system to an ordinary differential equation for the stream function has been obtained. It has been shown that this equation is reduced under certain conditions to two Chazy equations. The exact solution expressed in terms of Airy functions has been obtained at one value of the parameter in the equation. Three types of the flow of the fluid depending on the values of two arbitrary constants in the solution have been discovered by analyzing this solution

Приведена система уравнений для описания ламинарного осесимметричного стационарного течения несжимаемой вязкой жидкости над плоским дном в приближении пограничного слоя. На дне рассматриваются условия непротекания и полного проскальзывания. Получена редукция системы к одному уравнению для функции тока. Показано, что при некоторых условиях полученное уравнение сводится к двум уравнениям Шези. Для одного значения параметра в уравнении найдено точное решение, выраженное через функции Эйри

Some approaches to obtaining a solution of the system of differential equations for an element of the waveguide system of a spacecraft

S97

Sil'chenko, P.N.; Kudryavtsev, I.V.; Mikhnev, M.M.; Gotselyuk, O.B. (Sibirskij Federal'nyj Univ., Krasnoyarsk (RU))

Nekotorye podkhody k polucheniyu resheniya sistemy differentsial'nykh uravnenij dlya ehlementa volnovodnogo trakta kosmicheskogo apparata

p. 19-24

(RU)

2 refs., 3 figs.

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SPACE VEHICLES; POWER SYSTEMS; SIMULATION; EQUATIONS; DIFFERENTIAL EQUATIONS

The problem of modeling of the static and dynamic condition of waveguide and distributive systems of communication spacecrafts has been analyzed in order to improve their radio engineering, strength, rigidity, and mass-dimensional parameters. The system of nonlinear partial

differential equations has been obtained for a straight basic element of the waveguide and distributive system. This system makes it possible to determine the stress-strain state of this element

Рассматривается проблема моделирования статического и динамического состояния волноводораспределительных систем космических аппаратов связи с целью улучшения их радиотехнических, прочностных, жесткостных и массогабаритных параметров. Получена система нелинейных дифференциальных уравнений в частных производных для прямого базового элемента волноводно-распределительной системы, позволяющая определять его напряженно-деформированное состояние

Scalar hydrodynamic problem with concentrated masses aperiodically located on the surface

S37

Chechkina, T.P. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU))

Skalyarnaya gidrodinamicheskaya zadacha s neperiodicheski raspolozhennymi kontsentrirovannymi massami na poverkhnosti

p. 25-34

(RU)

34 refs., 1 fig.

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CHEMICAL ANALYSIS; CHEMISTRY; FLUID FLOW; FLUX DENSITY; OSCILLATIONS

Low-frequency oscillations of a heavy viscous incompressible fluid in a vessel with aperiodically perforated cover have been considered for the case of where the density of the fluid in the vicinity of the cover is inhomogeneous. The homogenization theorem has been proved for the resulting quadratic operator

В работе рассматриваются низкочастотные колебания тяжелой вязкой несжимаемой жидкости в сосуде с непериодически перфорированной крышкой в случае, когда плотность жидкости около крышки неоднородна. Для полученного квадратичного операторного пучка доказана теорема усреднения

Estimates in L_q of higher derivatives for the solutions of nondivergent parabolic equations with unbounded coefficients

S97

Kamynin, V.L.; Bukharova, T.I. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU))

Otsenki v L_q starshikh proizvodnykh reshenij nedivergentnykh parabolicheskikh uravnenij s neogranichennymi koehffitsientami

p. 35-40

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10 refs.

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MATHEMATICS; MATHEMATICAL MODELS; MATHEMATICAL SOLUTIONS;
EQUATIONS; ANISOTROPY

Estimates for generalized solutions of the first boundary value problem for nondivergent parabolic equations with unbounded lower-term coefficients have been obtained. The cases where these coefficients belong to isotropic and anisotropic Lebesgue spaces have been separately considered. The leading coefficients can be discontinuous, but should satisfy the Cordes condition

В работе получены оценки обобщенных решений первой краевой задачи для недивергентных параболических уравнений, младшие коэффициенты которых являются неограниченными. Отдельно рассмотрены случаи, когда эти коэффициенты принадлежат изотропным и анизотропным пространствам Лебега. Старшие коэффициенты могут быть разрывными функциями, но удовлетворяющими условию типа Кордеса

Equilibrium configurations of point vortices on a plane for a perturbed Hamiltonian system

S71

Kirin, N.A. (Moskovskij Gosudarstvennyj Oblastnoj Sotsial'no-Gumanitarnyj Inst., Kolomna (RU))

Sokhranyayushchiesya konfiguratsii v neklassicheskoj teorii tochechnykh vikhrej na ploskosti p. 41-47

(RU)

6 refs.

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PHYSICS; MATHEMATICAL MODELS; HAMILTONIAN FUNCTION; INTEGRALS;
THOMSON SCATTERING

Hamiltonian systems connected with Vassiliev invariants, which are represented by Chen's iterated integrals of logarithmic forms, have been considered. Hamiltonian systems generated by first-order Vassiliev invariants are connected with the classical problem of motion of point vortices on a plane. Perturbations of the Hamiltonian system of the classical problem of point vortices on the plane have been analyzed with the second-order Vassiliev invariants. Existence theorems for collinear and triangular Thomson configurations have been proved for three non-classical point vortices

В статье рассмотрены гамильтоновы системы, отвечающие инвариантам Васильева, заданным с помощью итерированных интегралов Чена от логарифмических дифференциальных форм. Гамильтоновы системы, порожденные инвариантами Васильева первого порядка, связаны с классической задачей о движении точечных вихрей на плоскости. Изучаются возмущения гамильтоновой системы классической задачи n вихрей на плоскости с помощью инвариантов Васильева второго порядка. Доказаны теоремы существования сохраняющихся коллинеарных и томсоновских конфигураций трех неклассических точечных вихрей

Solution of systems of linear algebraic equations by the method of summation of divergent series

S97

Kirichenko, G.A. (Yuzhnyj Federal'nyj Univ., Inzhenerno-Tekhnologicheskaya Akademiya, Taganrog (RU)); Korovin, Ya.S.; Khisamutdinov, M.V.; Shmojlov, V.I. (NII Mnogoprotsessornykh Vychislitel'nykh Sistem, Taganrog (RU))

Reshenie sistem linejnykh algebraicheskikh uravnenij metodom tsepnykh drobej

p. 48-56

(RU)

13 refs., 6 tabs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; MATHEMATICAL MODELS; EQUATIONS; ALGORITHMS; EXACT SOLUTIONS

A method for solving systems of linear algebraic equations has been proposed on the basis on the summation of the corresponding continued fractions. The proposed algorithm for solving systems of linear algebraic equations is classified as direct algorithms providing an exact solution in a finite number of operations. Examples of solving systems of linear algebraic equations have been presented and the effectiveness of the algorithm has been estimated

Предлагается способ решения систем линейных алгебраических уравнений (СЛАУ), который основывается на суммировании рядов соответствующими цепными дробями. Предлагаемый алгоритм решения СЛАУ относится к категории прямых алгоритмов, обеспечивающих точное решение системы за конечное число операций. Приводятся примеры решения СЛАУ и оценивается эффективность алгоритма

Constant support system for multiparticle radiation transport and models of discrete hh, hA, and AA Interactions on the basis of the RTS&T-2013 code

S73

Degtyarev, I.I.; Novoskol'tsev, F.N. (FGBU GNTs Inst. Fiziki Vysokikh Ehnergij NITs Kurchatovskij Inst., Protvino (RU))

Sistema konstantnogo obespecheniya perenosa mnogokomponentnogo izlucheniya i modelej diskretnykh hh-, ha- i AA-vzaimodejstvij programmno kompleksa RTS&T-2013

p. 57-67

(RU)

27 refs., 10 figs.

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PHYSICS; HIGH ENERGY PHYSICS; RADIATION TRANSPORT; INTERACTIONS

The constant system for multiparticle radiation transport and macro- and micromodels of the hh, hA, and AA interactions implemented in the form of a set of hadronic generators, included in the current version of the RTS&T-2013 code system intended for the statistical modeling of multi-

particle radiation transport in heterogeneous 3D geometries in a wide energy range has been considered. Selective results of systematic testing of the code on the basis of integral benchmarks for typical problems of radiation transport are given for intermediate- and high-energy ranges

В работе рассматривается система константного обеспечения переноса многокомпонентного излучения, а также макро- и микромоделей hh-, hA- и AA- взаимодействий, реализованных в виде набора адронных генераторов, включенных в состав текущей версии комплекса RTS&T-2013, предназначенного для статистического моделирования переноса многокомпонентного излучения в гетерогенных 3D-геометриях в широком диапазоне энергий. Приведены выборочные результаты систематического тестирования комплекса на основе базовых интегральных экспериментов для типичных задач переноса в диапазонах промежуточных и высоких энергий

Mathematical modeling of the heat frozen earth in OpenFOAM

S97

Kudryashov, N.A.; Chmykhov, M.A.; Kartashev, A.P. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU))

Matematicheskoe modelirovanie skvazhinnogo nagreva mnogoletnemerzlykh gruntov s ispol'zovaniem OpenFOAM

p. 68-72

(RU)

15 refs., 6 figs., 2 tabs.

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MATHEMATICS; MATHEMATICAL MODELS; MATHEMATICAL SOLUTIONS; EXACT SOLUTIONS; PROGRAMMING; LINEAR PROGRAMMING

A mathematical model of heating permafrost has been presented with allowance for the Stefan condition at the boundary melting. A numerical algorithm has been proposed for analyzing this process. A computation module has been developed on an open architecture with the use of object-oriented programming language OpenFOAM. The computation module has been verified on the known exact solutions of simplified problems

В работе представлена математическая модель прогрева массива многолетнемерзлого грунта. Предложен алгоритм расчета и реализован расчетный модуль на открытой архитектуре с использованием OpenFOAM. Верификация расчетного модуля проведена по известным точным решениям упрощенных задач

Determination of the visual texture from a set of individual orientations

S71;S72

Ivanova, Yu.S.; Vishnyakov, A.S.; Savelova, T.I. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU))

Opreделение ostroty tekstury po naboru otdel'nykh orientirovok

p. 73-77

(RU)

8 refs., 8 figs., 4 tabs.

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PHYSICS; MONTE CARLO METHOD; NEUTRON TRANSPORT THEORY;
MICROSCOPY; CALCULATION METHODS

The method of electron microscopy is widely used at present. The orientations of individual grains have been obtained in the experiments and have been used to solve various problems: the determination of grain sizes and phases of materials, as well as the calculation of pole figures and the distribution function of grain orientations. Grain orientations for the central normal distribution have been simulated by the specialized Monte Carlo method. The results obtained for different values of the parameters characterizing the texture sharpness (analog of the variance of the central normal distribution)

В настоящее время все более широко используют метод электронной микроскопии. В результате экспериментов получают ориентации отдельных зерен, по которым решают различные задачи - определение размеров зерен, фазы материалов, вычисляют полюсные фигуры и функции распределения зерен по ориентациям. В данной работе специализированным методом Монте-Карло моделировались ориентации зерен (ориентировки) для центрального нормального распределения

Calculation of dynamics in an induction linear electron accelerator

S43

Bazyl', D.S.; Savin, E.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU));

Zavadtsev, A.A.; Zavadtsev, D.A. (OOO NANO INVEST, Moscow (RU))

Raschet dinamiki v indukcionnom linejnom uskoritele ehlektronov

p. 78-84

(RU)

2 refs., 22 figs., 4 tabs.

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ACCELERATION; ACCELERATOR FACILITIES; PARTICLE BOOSTERS; CURRENTS;
BEAM DYNAMICS

Particle accelerators with high currents (above 10 A) are currently very popular. Such currents are rather problematic in the RF accelerating structures; for this reason, different methods are used. The structure of an induction electron accelerator has been proposed. The simulation of the beam dynamics in this accelerator for different beam currents has been performed. The problem of the formation of a screening field at high currents has been solved

Большой практической популярностью пользуются ускорители с большими токами (более 10 А). В высокочастотных структурах ускорения таких токов довольно проблематичны, поэтому используются другие способы. Предложена структура индукционного ускорителя электронов. Проведено моделирование динамики пучка в данном ускорителе для различных токов пучка. Найдено решение проблемы с образованием экранирующего поля при больших токах

Fuzzy optimization approach for the reliability of various schemes and fuzzy identification of weights in multicriteria optimization in control systems of nuclear reactors and power plants

S22

Zhuchkov, A.A.; Al'masri, Kh.F. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU))

Nechetkaya optimizatsiya nadezhnosti i identifikatsiya vesov dlya mnogokriterial'nogo vybora variantov skhem ASU TP yadernykh reaktorov i AEhS

p. 85-91

(RU)

9 refs., 7 figs., 8 tabs.

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POWER PLANTS; WWER TYPE REACTORS; REACTOR SAFETY; CONTROL SYSTEMS; REACTOR CONTROL SYSTEMS; COMPUTERIZED CONTROL SYSTEMS

An implementation of fuzzy optimization in the reliability of multicriteria selections in control schemes of nuclear reactors and power plants has been presented. In particular, optimization based on the theory of fuzzy sets has been proposed for the majority schemes, taking into account various reasons of failures. Set of fuzzy algorithms has been suggested as a basic technology for ranking process according to standard criterion, which includes steps of construction of the rules, initial estimation, fuzzification, and defuzzification. Software implementations have been presented for the fuzzy approach using the MatLab package

Рассматривается нечеткая реализация задачи оптимизации надежности при многокритериальном выборе вариантов схем АСУ ТП ядерных реакторов и АЭС. В частности, предлагается на основе применения нечетких множеств оптимизация для мажоритарных схем с учетом различения отказов по последствиям. Предлагается в качестве базовой технологии решения совокупность нечетких алгоритмов для ранжирования по глобальному критерию, которые включают этапы начальных оценок фазификации, построения правил, дефазификации. Проводится сравнение нечетких решений с традиционными. Приводятся программные реализации нечеткого подхода (MatLab)

Parallel computation of cryptographic pairings

S97

Kogos, K.G.; Kyazhin, S.N.; Yuzbashev, A.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU))

Parallel'noe vychislenie kriptograficheskikh sparivaniy

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COMPUTERS; PROGRAMMING; CALCULATION METHODS; MICROPROCESSORS; COMPUTER CALCULATIONS

The efficiency of multiprocessor systems for pairing computation has been estimated. Various schemes of efficient implementation of Miller's algorithm for computations of Weyl and Tate pairings in a multiprocessor computing system have been considered. The complexity of pairing computation in uniprocessor and multiprocessor computing systems has been theoretically estimated

Статья посвящена оценкам эффективности применения многопроцессорных систем при вычислении спаривания. Рассмотрены различные схемы эффективной реализации алгоритма Миллера вычисления спариваний Вейля и Тейта в условиях многопроцессорной вычислительной системы, приведена теоретическая оценка сложности вычисления спаривания в условиях однопроцессорной и многопроцессорной вычислительных систем

Analytical properties of solutions of autonomous systems of nonlinear third- and fourth-order differential equations with a chaotic behavior

S97

Tsegel'nik, V.V. (Belorusskij Gosudarstvennyj Univ. Informatiki i Radioehlektroniki, Minsk (BY))

Analiticheskie svojstva reshenij avtonomnykh sistem nelinejnykh differentsial'nykh uravnenij tret'ego i chetvertogo porjadkov s khaoticheskim povedeniem

p. 101-106

(RU)

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MATHEMATICS; MATHEMATICAL MODELS; MATHEMATICAL SOLUTIONS; INTEGRAL EQUATIONS; CALCULATION METHODS

Painleve analysis of solutions of some nonlinear autonomous systems of third- and fourth-order differential equations with a chaotic behavior has been performed

Проведен Пенлеве-анализ решений некоторых нелинейных автономных систем дифференциальных уравнений третьего и четвертого порядков с хаотическим поведением

Some methods for the construction of exact solutions of nonlinear delay reaction-diffusion equations with varying transfer coefficients

S97

Polyanin, A.D. (Inst. Problem Mekhaniki im. A.Yu. Ishlinskogo RAN, Moscow (RU); Moskovskij Gosudarstvennyj Tekhnicheskij Univ. im. N.Eh. Baumana, Moscow (RU); Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)); Zhurov, A.I. (Inst. Problem Mekhaniki im. A.Yu. Ishlinskogo RAN, Moscow (RU); Cardiff Univ., Cardiff (GB))

Nekotorye metody postroeniya tochnykh reshenij nelinejnykh reaktcionno-diffuzionnykh uravnenij s zapazdyvayushchim argumentom i peremennymi koehffitsientami perenosa

p. 107-118

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MATHEMATICS; MATHEMATICAL SOLUTIONS; MATHEMATICAL MODELS;
EQUATIONS; FUNCTIONAL MODELS; EXACT SOLUTIONS

We consider one-dimensional nonlinear delay reaction-diffusion equations with varying transfer coefficients. We describe a few new methods for constructing exact solutions of such equations; these methods are based on using invariant subspaces for the corresponding nonlinear differential operators. A number of new exact generalized and functional separable solutions have been obtained. All of the equations and solutions involve several free parameters. The exact solutions obtained can be used to test approximate analytical and numerical methods for solving nonlinear delay reaction-diffusion equations

Рассматриваются одномерные нелинейные уравнения реакционно-диффузионного типа с запаздывающим аргументом и переменным коэффициентом переноса. Описаны новые методы построения точных решений таких уравнений, которые основаны на использовании инвариантных подпространств соответствующих нелинейных обыкновенных дифференциальных операторов. Получены новые точные решения с обобщенным и функциональным разделением переменных. Все рассмотренные уравнения и решения содержат несколько свободных параметров. Полученные точные решения можно использовать для тестирования приближенных аналитических и численных методов решения нелинейных реакционно-диффузионных уравнений с запаздыванием

Nonlinear delay reaction-diffusion equations: exact traveling wave solutions S97

Polyanin, A.D. (Inst. Problem Mekhaniki im. A.Yu. Ishlinskogo RAN, Moscow (RU); Moskovskij Gosudarstvennyj Tekhnicheskij Univ. im. N.Eh. Baumana, Moscow (RU); Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)); Sorokin, V.G. (Moskovskij Gosudarstvennyj Tekhnicheskij Univ. im. N.Eh. Baumana, Moscow (RU))

Nelinejnye reakcionno-diffuzionnye uravneniya s zapazdyvaniem: tochnye resheniya tipa begushchej volny

p. 119-126

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MATHEMATICS; MATHEMATICAL SOLUTIONS; NUMERICAL SOLUTION;
MATHEMATICAL MODELS; FUNCTIONS; DIFFERENTIAL EQUATIONS

We consider nonlinear delay reaction-diffusion equations. We present a number of exact traveling wave solutions, which can be represented in terms of elementary functions. We consider equations with quadratic, power, exponential, and logarithmic nonlinearities, as well as more complex equations with the kinetic function depending on one or two arbitrary functions of a single argument. All of the solutions obtained involve several free parameters and can be used

to test approximate analytical and numerical methods for solving similar and more complex nonlinear differential-difference equations

Исследуются нелинейные реакционно-диффузионные уравнения с запаздыванием. Получены новые точные решения типа бегущей волны, допускающие представление в элементарных функциях. Рассмотрены уравнения с квадратичной, степенной, экспоненциальной и логарифмической нелинейностями, а также более сложные уравнения с кинетической функцией, зависящей от одной или двух произвольных функций одного аргумента. Все приведенные решения содержат свободные параметры и могут быть использованы для решения некоторых модельных задач и тестирования приближенных аналитических и численных методов решения аналогичных и более сложных нелинейных дифференциально-разностных уравнений

Methods of constructing solutions of nonlinear nonintegrable differential equations

S97

Kudryashov, N.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU))

Metody postroeniya reshenij nelinejnykh neintegriruemyykh differentsial'nykh uravnenij p. 127-134

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

The most well-known methods of constructing exact solutions of nonlinear nonintegrable differential equations are discussed. Calculations and results from the first work published more than 25 years ago on constructing exact solutions of the Kuramoto-Sivashinsky equation are given. The application of the truncated expansion method, tanh-expansion method, logistic-function method, and simplest equation method to construction of exact solutions is discussed. It has been shown that most of the methods used to construct exact solutions of nonlinear nonintegrable equations are equivalent

В данной работе обсуждаются наиболее известные методы построения точных решений нелинейных неинтегрируемых дифференциальных уравнений. Приведены вычисления и результаты первой работы, опубликованной более 25 лет назад, посвященной построению точных решений уравнения Курамото-Сивашинского. Обсуждается применение при построении точных решений метода усеченных разложений, метода гиперболического тангенса, метода логистической функции и метода простейших уравнений. Показана эквивалентность большинства методов, используемых при построении точных решений нелинейных неинтегрируемых уравнений

Painleve analysis and exact solutions for the predator-prey system of equations with diffusion

S97

Kudryashov, N.A.; Zakharchenko, A.S. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU))

Penleve-analiz i tochnye resheniya sistemy uravnenij, opisyyvayushchikh model' khishchnik-zhertva

p. 135-143

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MATHEMATICS; MATHEMATICAL MODELS; MATHEMATICAL SOLUTIONS; EQUATIONS; FUNCTIONS; FUNCTIONAL ANALYSIS

A system of reaction-diffusion equations describing predator-prey relations is considered. The mathematical model corresponds to the modified Lotka-Volterra system with the logistic growth of the prey and with both predator and prey dispersing by diffusion. The Painleve analysis of the system of equations is performed. Exact traveling wave solutions are found by means of the logistic-function method

Рассматривается система реакционно-диффузионных уравнений, описывающая взаимодействие двух биологических видов по типу хищник-жертва. Математическая модель построена на основе модели Лотки-Вольтерры и включает логистический закон роста численности жертвы, а также пространственную диффузию. Показывается, что данная система не проходит тест на свойство Пенлеве. С помощью метода логистической функции находятся точные решения системы уравнений в виде бегущих волн

Stationary and translating configurations of point vortices in a plane

S37

Ul'yanova, O.O.; Demina, M.V.; Kudryashov, N.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU))

Sticheskie i ravnomerno dvizhushchiesya konfiguratsii tochechnykh vikhrej na ploskosti

p. 144-151

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CHEMISTRY; CHEMICAL ANALYSIS; FLUIDS; FLUID FLOW; LIQUIDS; VORTEX FLOW

The problem of constructing and classifying stationary and translating configurations of vortices in an inviscid incompressible fluid has been considered. All the configurations are given. Some of these configurations are new

Рассматривается вопрос построения и классификации статических и равномерно движущихся конфигураций точечных вихрей в невязкой несжимаемой жидкости. Приводятся все возможные конфигурации. Некоторые из найденных конфигураций являются новыми

Self-similar solutions of the gas filtration problem with the Forchheimer Law **S97**

Kudryashov, N.A.; Kutukov, A.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU))

Avtomodel'nye resheniya zadachi fil'tratsii gaza po zakonu Forkhgejmera

p. 152-154

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6 refs., 4 figs.

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MATHEMATICS; MATHEMATICAL MODELS; MATHEMATICAL SOLUTIONS;
EQUATIONS; DIFFERENTIAL EQUATIONS; NUMERICAL SOLUTION; RUNGE-KUTTA
METHOD

The system of equations describing one-dimensional isothermal gas filtration with a two-term drag law has been considered. Reduction to nonlinear ordinary differential equations has been obtained. The numerical solutions of the plane, axisymmetric, and centrosymmetric problems have been found by the fourth-order Runge-Kutta method

Рассматривается система уравнений, описывающая одномерную изотермическую фильтрацию газа при учете двучленного закона сопротивления. В системе уравнений используются автомодельные переменные. С помощью метода Рунге-Кутты четвертого порядка точности находятся численные решения для плоской, осесимметричной и сферически-симметричной задачи

Simulation of the single event effects in a 28-nm multiport CMOS SRAM cell **S97**

Katunin, Yu.V.; Stenin, V.Ya. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU); NII Sistemnykh Issledovaniy RAN, Moscow (RU))

Modelirovanie ehffektov vozdejstviya odinochnoj yadernoj chastitsy na 28-nm KMOP yachejku pamyati mnogoportovogo OZU

p. 155-161

(RU)

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COMPUTERS; MATHEMATICAL MODELS; COMPUTER CALCULATIONS; MEMORY
MANAGEMENT; DATA PROCESSING; SEMICONDUCTOR DEVICES

Single nuclear particles induce the single-event transients and upsets in the memory cells. The result of a single nuclear particle strike only on one transistor cluster of the two transistor clusters of the DICE cell is a single-event transient, but not a single-event upset. The use of the new read-data-correction unit increases the soft-error immunity of the two-transistor cluster DICE cell by the successful DICE cell data reading. The successful data reading has been

confirmed by the simulation of the 28-nm multiport CMOS memory cell with the read-data-correction unit

Комплементарная структура металл-оксид-полупроводник (КМОП) ячейки памяти DICE при воздействии одиночной ядерной частицы переходят в нестационарное состояние. В этом состоянии происходит ложное чтение данных. Использование блока коррекции передачи данных на выход ячейки, который определяет достоверно два состояния на выводах триггера DICE, сохраняющиеся из стационарного состояния триггера до воздействия одиночной частицы, позволяет осуществить корректное чтение данных и повысить сбоеустойчивость состояния ячейки памяти. Моделирование характеристик 28-нм КМОП ячейки на основе триггера DICE подтвердили реальность достоверного чтения данных на выходе ячейки в многопортовом КМОП ОЗУ при воздействии помех на триггер ячейки памяти

Reading of 28-nm CMOS DICE SRAM cells during single event transients **S97**

Stenin, V.Ya.; Stepanov, P.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU); NII Sistemnykh Issledovaniy RAN, Moscow (RU))

Чтение 28-нм КМОП ячеек памяти DICE в стационарных состояниях, вызванных эффектами воздействия одиночных ядерных частиц

p. 162-170

(RU)

7 refs., 6 figs., 5 tabs.

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**COMPUTERS; MATHEMATICAL MODELS; SEMICONDUCTOR DEVICES;
TRANSISTORS; DATA PROCESSING; MEMORY MANAGEMENT**

New CMOS DICE cell layout design is based on the spacing of two transistor clusters of the cell. The result of the single nuclear particle strike only on one transistor cluster is a single-event transient but not a single-event upset. The DICE cell data reading in a non-steady state depends on the identification of two cell outputs with the initial steady states. The successful CMOS DICE SRAM data reading has been confirmed by the simulation of the reading of 28-nm non-steady state DICE cells

Комплементарная структура металл-оксид-полупроводник (КМОП) ячейка памяти при воздействии одиночной ядерной частицы переходит в нестационарное состояние, из которого либо возвращается в исходное состояние, либо происходит сбой. У ячеек с разделенными на две группы транзисторами, которые разнесены на кристалле оперативного запоминающего устройства на расстояние, снижающее вероятность сбоя хранимых данных. В этом состоянии можно осуществлять чтение данных блоком чтения, определяя два (из четырех) узла ячейки, которые сохраняют исходные стационарные состояния. Моделирование подтвердило реальность чтения данных

Reconstruction of a default canonical distribution from a set of individual orientations on the SO(3) rotation group

S97

Vishnyakov, A.S.; Savelova, T.I. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU))

Vosstanovlenie parametrov kanonicheskogo normal'nogo raspredeleniya po naboru otidel'nykh orientirovok na gruppe vrashchenij SO(3)

p. 171-178

(RU)

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**MATHEMATICS; CALCULATION METHODS; FOURIER ANALYSIS;
APPROXIMATIONS; ASYMPTOTIC SOLUTIONS; MONTE CARLO METHOD**

Only the central normal distribution among the normal distributions satisfying the central limit theorem on SO(3) can be computed analytically. The other normal distributions can be calculated only numerically. In the presence of small parameters, which are similar to unique dispersion, characterizing the canonical normal distribution, it is necessary to calculate the sum of a large number of terms of the Fourier series in spherical functions. For this case, an asymptotic formula for quite simple calculation of this distribution has been derived. The canonical normal distribution has been calculated by two methods: the analytical approximation method approximating this distribution for small parameters and the specialized Monte Carlo method applicable for any parameters

Из нормальных распределений (НР), удовлетворяющих центральной предельной теореме на SO(3), только центральное НР может быть вычислено аналитически. Остальные НР вычисляются только численно. При наличии малых параметров, аналогов дисперсии, характеризующих каноническое НР (КНР), приходится вычислять сумму большого количества слагаемых ряда Фурье по шаровым функциям. Для этого случая выведена асимптотическая формула, позволяющая достаточно просто вычислять это распределение. Вычисление КНР проводится двумя методами - методом аналитического приближения, аппроксимирующего данное распределение при малых значениях параметров, и специализированный метод Монте-Карло, применимый для любых параметров

Method for approximate determination of the roots of a cubic equation with positive coefficients and complex conjugate roots

S97

Maslennikov, V.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU))

Metod priblizhennogo opredeleniya kornej kubicheskogo uravneniya s polozhitel'nymi koehffitsientami i kompleksno-sopryazhennymi korniyami

p. 179-183

(RU)

5 refs., 2 figs.

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**MATHEMATICS; MATHEMATICAL MODELS; MATHEMATICAL SOLUTIONS;
EQUATIONS; APPROXIMATIONS; OPTIMIZATION**

A method for approximate determination of roots of a cubic equation that has one real and two complex-conjugate roots and satisfies the conditions of stability has been proposed. The formulas obtained are quite accurate, simple, and convenient for analysis and optimization of systems and objects

В статье предлагается метод нахождения приближенных значений корней кубического уравнения, имеющего один действительный и два комплексно-сопряженных корня и удовлетворяющего условиям устойчивости. Получаемые при этом формулы достаточно точны, просты и удобны для анализа и оптимизации систем и объектов

Algorithm for management of the target motion of a robot bypassing obstacles **S97;S99**

Kozin, R.G. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU))

Algoritm upravljeniya tselevym peremeshcheniem robota v obkhod prepyatstvij

p. 184-188

(RU)

2 refs., 9 figs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; ALGORITHMS; ROBOTS; REMOTE HANDLING EQUIPMENT

Complex strategy for management of the target motion of a robot bypassing obstacles in a closed room is considered. Screenshots of the program for testing the operability of the algorithm are presented

Рассматривается комплексная стратегия управления целевым перемещением робота в замкнутом помещении в обход препятствий. Приведены скриншоты приложения, с помощью которого тестировалась работоспособность алгоритма

XII International conference Moessbauer spectroscopy and its applications. **Collection of materials**

S75

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Some metallic subjects for fundamental investigations by Moessbauer spectroscopy

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Moessbauer investigation charge, orbital, and spin ordering in manganites

CaCu_xMn_{7-x}O₁₂ (0 ≤ x ≤ 1)

S75

Rusakov, V.S.; Presnyakov, I.A.; Sobolev, A.V.; Glazkova, Ya.S.; Matsnev, M.E.; Gapochka, A.M.; Gubajdulina, T.V. (Moskovskij Gosudarstvennyj Univ. im. M.V. Lomonosova, Moscow (RU)), e-mail: rusakov@phys.msu.ru; Demazeau, G. (Univ. Bordeaux I Sciences and Technologies, Centre de Ressources Hautes Pressions ICMCB_ENCPCB 33608, Pessac Cedex (FR))

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Local activation of crystals by γ -rays and the phenomenon of self-organization

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Hyperfine interactions of ^{57}Fe probe atoms in TmNiO_3 and YbNiO_3 in temperature ranges of magnetic and structure phase transitions

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Rusakov, V.S.; Presnyakov, I.A.; Gapochka, A.M.; Sobolev, A.V.; Tolmachev, T.D. (Moskovskij Gosudarstvennyj Univ. im. M.V.Lomonosova, Moscow (RU)), e-mail: rusakov@phys.msu.ru; Demazeau, G. (Univ. Bordeaux I Sciences and Technologies, Centre de Ressources Hautes Pressions ICMCB_ENCPB 33608, Pessac Cedex (FR)); Alonso, J.A. (Inst. de Ciencia de Materiales de Madrid, CSIC, Cantoblanco, E-28049 Madrid (ES))

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Self-organization of atomic nanodisplacements in multiferroic BiFeO₃ under the impact of electric shock

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Godovikov, S.K.; Nikitin, S.M. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki im. D.V. Skobel'tsyna MGU im. M.V. Lomonosova, Moscow (RU)), e-mail: godov@srd.sinp.msu.ru; Nikitina, E.A.; Tyutyunnikov, A.A. (Inst. Prikladnoj Mekhaniki RAN, Moscow (RU)); Pokatilov, V.S. (Moskovskij Gosudarstvennyj Tekhnicheskij Univ. Radiotekhniki, Ehlektroniki i Avtomatiki, Moscow (RU))

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Sigov, A.S.; Pokatilov, V.S.; Konovalova, A.O. (Moskovskij Gosudarstvennyj tekhnicheskij Univ. Radiotekhniki, Ehlektroniki i Avtomatiki, Moscow (RU)), e-mail: a_konovalova@mirea.ru

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Antiferromagnet fluctuations in heavy-fermion CePdSn by Moessbauer spectroscopy

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3 refs.

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Moessbauer study of nonmonotonic behavior of structural transformations in $\text{La}_{0.9}\text{Ba}_{0.05}\text{Mn}_{0.98}{}^{57}\text{Fe}_{0.02}\text{O}_3 + \delta$ under heat treatment

S75

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 $\text{La}_{0.9}\text{Ba}_{0.05}\text{Mn}_{0.98}{}^{57}\text{Fe}_{0.02}\text{O}_3 + \delta$ pri termoobrabotke
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STOCHASTIC PROCESSES

Moessbauer study of multiferroics on based $\text{Bi}_{20}\text{O}_3\text{-TiO}_2\text{-Fe}_2\text{O}_3$ system

S75

*Semenov, V.G.; Panchuk, V.V. (Sankt-Peterburgskij Gosudarstvennyj Univ., Sankt-Peterburg
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Magnetism of the quasiordered Fe-Al alloys with admixtures - Ga, V and Mn: Moessbauer and magnetometric studies

S75

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Moessbauer study of zinc oxide implanted with iron ions

S75

Dulov, E.N.; Gumarov, A.I.; Khripunov, D.M.; Ivojlov, N.G. (Kazanskij (Privolzhskij) Federal'nyj Univ., Kazan' (RU)); Valeev, V.F. (Kazanskij Fiziko-Tekhnicheskij Inst. im. Zavojskogo, Kazan' (RU)); Khajbullin, R.I.; Tagirov, L.R. (Kazanskij (Privolzhskij) Federal'nyj Univ., Kazan' (RU); Kazanskij Fiziko-Tekhnicheskij Inst. im. Zavojskogo, Kazan' (RU)), e-mail: fe57@rambler.ru, rik@kfti.knc.ru

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Moessbauer and structural study of the multiferroics of RFe₃(BO₃)₄ family

S75

Frolov, K.V.; Lyubutin, I.S.; Alekseeva, O.A.; Verin, I.A. (Inst. Kristallografii Rossijskoj Akademii Nauk, Moscow (RU)), e-mail: green@crys.ras.ru

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4 refs.

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Magnetic properties of the Fe₃Se₄ and Fe₇Se₈ nanoparticles studied by Moessbauer spectroscopy

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Funtov, K.O.; Lyubutin, I.S.; Korzhetskij, Yu.V.; Starchikov, S.S.; Dmitrieva, T.V.; Dubinskaya, Yu.L. (Inst. Kristallografii RAN, Moscow (RU)), e-mail: funtov.ko@gmail.com; Lin, C.-R. (Inst. of Nanotechnology and Dept. of Mechanical Engineering, Southern Taiwan Univ., Tainan County 710, Taiwan (CN))

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Gajnov, R.R.; Vagizov, F.G.; Pen'kov, I.N.; Duglav, A.V.; Klekovkina, V.V. (Kazanskiy (Privolzhskij) Federal'nyj Univ., Kazan' (RU)), e-mail: g_ramil@mail.ru; Golovanevskij, V.A. (Tekhnologicheskij Univ. Kertina, Pert (AU))

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4 refs.

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Nano-range self-oscillations of atomic displacements in Nd₂Fe₁₄B crystals irradiated by γ -rays

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Godovikov, S.K.; Lagutina, E.S.; Ermakov, A.N. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki im. D.V. Skobel'tsyna MGU im. M.V. Lomonosova, Moscow (RU)), e-mail: godov@srd.sinp.msu.ru; Nikitin, S.M. (Nauchno-Issledovatel'skij Inst. Yadernoj Fiziki im. D.V. Skobel'tsyna MGU im. M.V. Lomonosova, Moscow (RU); Inst. Prikladnoj Mekhaniki RAN, Moscow (RU))

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Moessbauer effect study of Bi_{0.8}La_{0.2}FeO₃ multiferroic on ⁵⁷Fe nuclei

S75

Sigov, A.S.; Pokatilov, B.S.; Konovalova, A.O. (Moskovskij Gosudarstvennyj Tekhnicheskij Univ. Radiotekhniki, Ehlektroniki i Avtomatiki, Moscow (RU)), e-mail: a_konovalova@mirea.ru

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Valence and magnetic state of iron ions in

Bi_{0.8}1.5Tb_{0.0}8.5La_{0.1}FeO₃ perovskite

S75

Pokatilov, V.S.; Konovalova, A.O.; Sigov, A.S. (Moskovskij Gosudarstvennyj Tekhnicheskij Univ. Radiotekhniki, Ehlektroniki i Avtomatiki, Moscow (RU)), e-mail: a_konovalova@mirea.ru

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Local states of iron ions in Bi_{0.8}1.5Y_{0.0}8.5La_{0.1}FeO₃ perovskite

S75

Pokatilov, V.S.; Konovalova, A.O.; Sigov, A.S. (Moskovskij Gosudarstvennyj Tekhnicheskij Univ. Radiotekhniki, Ehlektroniki i Avtomatiki, Moscow (RU)), e-mail: a_konovalova@mirea.ru

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TEMPERATURE RANGE 0400-1000 K; ISOMER SHIFT; VALENCE

Magnetic and crystalline structure of nanosize MgZn ferrites, got by sol-gel method

S75

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poluchennykh zol'-gel' metodom

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1 ref., 1 fig.

Zn_xMg_{1-x}Fe₂O₄, x=0, 0.2, 0.44, 0.5, 0.6

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FERRITES; ZINC COMPOUNDS; MAGNESIUM COMPOUNDS; CHEMICAL COMPOSITION; SOL-GEL PROCESS; NANOPARTICLES; X-RAY DIFFRACTION; IRON 57; CERAMICS

Moessbauer spectroscopy studies of iron ions in new high temperature superconducting materials based on GdOFeAs

S75

Korotkov, N.Yu.; Frolov, K.V.; Lyubutin, I.S. (Inst. Kristallografii im. A.V. Shubnikova RAN, Moscow (RU)), e-mail: korotkov.nk@gmail.com; Khlybov, E.P. (Inst. Fiziki Vysokikh Davlenij RAN, Troitsk (RU)); Pudalov, V.M.; Sadakov, A.V.; Pervakov, K.V. (Fizicheskij Inst. im. P.N. Lebedeva RAN, Moscow (RU))

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semejstva GdOFeAs metodom messbauehrovskoj spektroskopii

p. 48

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Electric and magnetic phase transitions in strontium-doped lanthanum cobaltate perovskites

S75

Nemeth, Z.; Nagy, D.L.; Vanko, G. (Wigner Research Centre for Physics, Hungarian Academy of

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Low-temperature magnetic properties of the new multiferroics family based on langasite crystal

S75

Naumov, P.G.; Lyubutin, I.S.; Frolov, K.V. (Inst. Kristallografii Rossijskoj Akademii Nauk, Moscow (RU)), e-mail: pgnauvov@gmail.com; Mill', B.V. (Moskovskij Gosudarstvennyj Univ. im. M.V.Lomonosova, Moscow (RU))

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Nizkotemperaturnye magnitnye svojstva novogo semejstva mul'tiferroikov na osnove kristalla langasita

p. 50

(RU)

3 refs.

A₃MFe₃X₂O₁₄ (A=Ba, Sr; M=Sb, Nb, Ta; X=Si, Ge)

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Moessbauer and ESR spectra of thullium ferromanganites

S75

Parfenov, V.V.; Nig'matullina, I.I.; Pyataev, A.V. (Kazanskij Federal'nyj Univ., Kazan' (RU)), e-mail: Viktor.Parfenov@ksu.ru; Eremina, R.M. (Kazanskij Fiziko-Tekhnicheskij Inst. KNTs RAN, Kazan' (RU))

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YaGR i EhPR spektry ferromanganitov tuliya

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1 fig.

$Tm_{0.6}Sr_{0.3}Fe_xMn_{1-x}O_3$ (x=0.3-0.4)

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Moessbauer study of the $FeSe_{1-x}Te_x$ superconducting compound

S75

Perunov, I.V.; Frolov, K.V.; Lyubutin, I.S.; Korotkov, N.Yu. (Inst. Kristallografii Rossijskoj

Akademii Nauk, Moscow (RU); Belikov, V.V.; Kazakov, S.M.; Antipov, E.V. (Moskovskij Gosudarstvennyj Univ. im. M.V.Lomonosova, Moscow (RU)), e-mail: qazqwer1@mail.ru

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Hyperfine fields and magnetic moments in intermetallic compounds ScFe₂ with cubic and hexagonal structures

S36

Pokatilov, V.S. (Moskovskij Gosudarstvennyj Tekhnicheskij Univ. Radiotekhniki, Ehlektroniki i Avtomatiki, Moscow (RU)), e-mail: pokatilov@mirea.ru

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p. 53

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NMR and Moessbauer study of Ni and Fe local states in solid solutions Ni_{1-x}Fe_x (x=0-0.1)

S75

Pokatilov, V.S. (Moskovskij Gosudarstvennyj Tekhnicheskij Univ. Radiotekhniki, Ehlektroniki i Avtomatiki, Moscow (RU)), e-mail: pokatilov@mirea.ru

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Issledovanie lokal'nykh sostoyanij atomov nikelya i zheleza v tverdykh rastvorakh Ni_{1-x}Fe_x (x=0-0.1) metodami YaMR i ehffekta Messbauehra

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1 ref.

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Investigation of dynamical effects on ⁵⁷Fe probe nuclei in layered perovskites La₂Li_{0.5}M_{0.5}O₄ (M=Co, Ni, Cu)

S75

Presniakov, I.A.; Rusakov, V.S.; Sobolev, A.V.; Matsnev, M.E.; Volkova, O.V.; Vasiliev, A.N. (Lomonosov Moscow State Univ., Moscow (RU)), e-mail: ipresniakov@rambler.ru; Moskin, A.S. (Ural State Univ., Ekaterinburg (RU)); Demazeau, G. (Univ. Bordeaux I Sciences and

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Electric and magnetic hyperfine interactions of ^{57}Fe atoms in FeVO_4 , AgFeO_2 and $\text{CuFe}_1-x\text{Al}_x\text{O}_2$ multiferroics

S75

Sobolev, A.V.; Rusakov, V.S.; Gapochka, A.M.; Presniakov, I.A.; Glazkova, Ya.S. (State Univ., Moscow (RU)); Demazeau, G. (Univ. Bordeaux 1 Sciences and Technologies, Pessac (FR))

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Hyperfine magnetic field in dilute Laves phases Tb(Fe_{1-x}Al_x)₂

S75

Solodov, E.V.; Opalenko, A.A.; Firov, A.I.; Ilyushin, A.S. (Faculty of Physics, Moscow State Univ., Moscow (RU)), e-mail: solodov@phys.msu.ru; Umkhaeva, Z.S. (Chechen State Univ., Groznyi (RU))

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Hyperfine magnetic field in dilute Laves phases Nd(Fe_{1-x}Al_x)₂

S75

Solodov, E.V.; Opalenko, A.A.; Firov, A.I.; Ilyushin, A.S. (Faculty of Physics, Moscow State Univ., Moscow (RU)), e-mail: solodov@phys.msu.ru; Umkhaeva, Z.S. (Chechen State Univ., Groznyi (RU))

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Bismuth ferrite Moessbauer study in wide low temperature range

S75

Eremkin, V.V.; Sarychev, D.A.; Smotrakov, V.G.; Stashenko, V.V. (Nauchno-Issledovatel'skij Inst. Fiziki Yuzhnogo Federal'nogo Univ., Rostov-na-Donu (RU)), e-mail: z_machine@mail.ru

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Issledovanie ferrita vismuta v shirokom diapazone nizkikh temperatur metodom messbauehrovskoj spektroskopii

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QUADRUPOLE MOMENTS; MAGNETIC MOMENTS

Comparative Moessbauer studies of the $Fe_{1-x}Te$ and $FeSe_{1-y}$ compounds S75

Vasyukov, D.M.; Frolov, K.V.; Lyubutin, I.S.; Korotkov, N.Yu. (Inst. Kristallografii Rossijskoj Akademii Nauk, Moscow (RU)); Belikov, V.V.; Kazakov, S.M.; Antipov, E.V. (Moskovskij Gosudarstvennyj Univ. im. M.V. Lomonosova, Moscow (RU)); Kalyuzhnaya, G.A.; Golubkov, M.V.; Romanova, T.A. (Fizicheskij Inst. Rossijskoj Akademii Nauk, Moscow (RU)), e-mail: mellio@mail.ru

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Moessbauer study of structure of $La(Fe_{0.8}Si_xAl_{0.12-x})$ compounds in paramagnetic state S75

Vershinin, A.V.; Serikov, V.V.; Klejnerman, N.M.; Mushnikov, N.V.; Gaviko, V.S. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU)), e-mail: vershinin@imp.uran.ru

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The effect of boron admixture on magnetic properties of the ordered Fe-Al alloys **S75**

Voronina, E.V. (Inst. Fiziki, Kazanskij (Privolzhskij) Federal'nyj Univ., Kazan' (RU)), e-mail: evoronina2005@ya.ru; Elsukov, E.P. (Fiziko-Tekhnicheskij Inst. UrO RAN, Izhevsk (RU)); Korolev, A.V. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU)); Rusakov, V.S. (Moskovskij Gosudarstvennyj Univ. im. M.V. Lomonosova, Moscow (RU))

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Distribution of Mn, Al, Si and C impurities and their effect on the stacking fault energies and hyperfine interactions in austenite

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Medvedeva, N.I. (Inst. Khimii Tverdogo Tela UrO RAN, Ekaterinburg (RU)), e-mail: medvedeva@ihim.uran.ru

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Magnetic hyperfine interactions of ^{119}Sn probe atoms in manganites $\text{CaCu}_3\text{Mn}_4\text{O}_{12}$ and $\text{CaMn}_7\text{O}_{12}$

S75

Rusakov, V.S.; Presnyakov, I.A.; Sobolev, A.V.; Glazkova, Ya.S.; Gapochka, A.M.; Gubajdulina, T.V.; Volkova, O.S.; Vasil'ev, A.N. (Moskovskij Gosudarstvennyj Univ. im. M.V. Lomonosova, Moscow (RU)), e-mail: rusakov@phys.msu.ru; Demazeau, G. (Univ. Bordeaux I Sciences and Technologies, Centre de Ressources Hautes Pressions ICMCB_ENCPB 33608, Pessac (FR))

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Moessbauer spectroscopy study of the formation of Fe layers in magnetic superlattices

S75

Tsurin, V.A.; Romashev, L.N.; Ustinov, V.V.; Goloborodskij, B.Yu. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU)), e-mail: romashev@imp.uran.ru; Ovchinnikov, V.V. (Inst. Ehlektrofiziki UrO RAN, Ekaterinburg (RU))

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Probe Moessbauer spectroscopy of grain boundaries and initial stage of mechanical alloying in the Mg-, Al-, Si- and Mo-based nanosystems with Fe
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Moessbauer studies of microstructure and magnetic properties of Fe₆Co₃ thin films deposited on different underlayers

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Comparative study of magnetite nanoparticles as-prepared and dispersed in copaiba oil using Moessbauer spectroscopy and magnetic measurements

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Complex structure analysis of the iron oxide-based nanomaterials

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Savchenko, A.G.; Yagodkin, Yu.D. (NITU MISiS, Moscow (RU)), e-mail: yag52@mail.ru, algsav@gmail.com; Yurtov, E.V. (Rossijskij Khimiko-Tekhnologicheskij Univ. im D.I. Mendeleeva, Moscow (RU))

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Magnetic transition and properties of hollow microspheres CoFe₂O₄-SiO₂ investigated by the Moessbauer spectroscopy

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Local atomic and magnetic structure of nanocrystalline Fe₇Cr₁O_B₁₅ alloy

S75

Pokatilov, V.S.; Dmitrieva, T.G. (Moskovskij Gosudarstvennyj tekhnicheskij Univ. Radiotekhniki, Ehlektroniki i Avtomatiki, Moscow (RU)), e-mail: pokatilov@mirea.ru

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Study of the superparamagnetic ferroxhyte nanoparticles formation in presence of humic substances by Moessbauer spectroscopy of the frozen solutions

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Polyakov, A.Yu.; Goldt, A.E. (Faculty of Material Science, Lomonosov Moscow State Univ., Moscow (RU)), e-mail: a.yu.polyakov@gmail.com; Sorkina, T.A.; Pankratov, D.A.; Perminova, I.V. (Faculty of Chemistry, Lomonosov Moscow State Univ., Moscow (RU)); Goodilin, E.A. (Faculty of Material Science and Faculty of Chemistry, Lomonosov Moscow State Univ., Moscow (RU))

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Structural, magnetic and electronic properties of iron sulfide Fe₃S₄ and CuFeS₂ nanoparticles studied by the Moessbauer spectroscopy

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Starchikov, S.S.; Lyubutin, I.S.; Funtov, K.O.; Dmitrieva, T.V.; Dubinskaya, Yu.L. (Shubnikov Inst. of Crystallography, Russian Academy of Sciences, Moscow (RU)), e-mail: sergey.postbox@gmail.com; Lin, C.-R. (Inst. of Nanotechnology and Dept. of Mechanical Engineering, Southern Taiwan Univ., Taiwan (CN))

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Moessbauer studies of magnetic properties garnet films

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Kamzin, A.S. (Ioffe Physical Technical Inst., Russian Academy of Sciences, St. Petersburg (RU)), e-mail: kamzin@mail.ioffe.ru; Kostishyn, V.G.; Medved, V.V. (Moscow State Inst. of Steel and Alloys Technological Univ., Moscow (RU)); Valiullin, A.A. (Kazan Federal Univ., Kazan (RU))

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Zhbanov, V.A.; Kiseleva, T.Yu.; Novakova, A.A. (*Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Fizicheskij Fakul'tet, Moscow (RU)*), e-mail: zhbanov@physics.msu.ru; Il'inykh, I.A.; Levina, V.V.; Kuznetsov, D.V. (*NITU MISiS, Khimicheskij Fakul'tet, Moscow (RU)*)

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Moessbauer spectroscopy of Fe-based nanocrystalline materials

S75

Elsukov, E.P. (*Fiziko-Tekhnicheskij Inst. UrO RAN, Izhevsk (RU)*), e-mail: yelsukov@fnms.fti.udm.ru

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NMR and Moessbauer study of local atomic and magnetic structure of amorphous Fe-B alloys

S75

Pokatilov, V.S.; Sigov, A.S. (Moskovskij Gosudarstvennyj Tekhnicheskij Univ. Radiotekhniki, Ehlektroniki i Avtomatiki, Moscow (RU)), e-mail: pokatilov@mirea.ru

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CHEMICAL COMPOSITION; TEMPERATURE RANGE 0065-0273 K; TEMPERATURE
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Nitrogen solid-phased mechanical alloying of steels using cyclic nitrides #Left Double Quotation Mark#dissolution-precipitation#Right Double Quotation Mark# phase transformations

S75

*Shabashov, V.A. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU)), e-mail:
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Moessbauer analysis of Fe ion state in LiFePO₄ cathode materials for Li-ion batteries

S75

Kamzin, A.S.; Bobyl, A.V.; Ershenko, E.M.; Terukov, E.I. (Ioffe Physical Technical Inst., Russian Academy of Sciences, St. Petersburg (RU)), e-mail: kamzin@mail.ioffe.ru; Agafonov, D.V. (St. Petersburg Inst. of Technology (Technical Univ.), St. Petersburg (RU)); Valiullin, A.A. (Kazan Federal Univ., Kazan (RU))

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New anisotropic magnetostrictive composites for functional smart devices

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Kiseleva, T.Yu.; Zholudev, S.I.; Novakova, A.A (Moskovskij Gosudarstvennyj Univ. im. M.V. Lomonosova, Fizicheskij Fakul'tet, Moscow (RU)), e-mail: Kiseleva.Tyu@gmail.com; Il'inykh, I.A. (Nauchno-Issledovatel'skij Tekhnicheskij Univ. MISIS, Moscow (RU)); Grigor'eva, T.F. (Inst. Khimii Tverdogo Tela i Mekhanokhimii SO RAN, Novosibirsk (RU))

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Formation of boron crystal solid solution in fcc Fe-Ni alloy at cold megadeformation

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Litvinov, A.V.; Shabashov, V.A.; Lyashkov, K.A.; Kataeva, N.V. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU)), e-mail: litvinov@imp.uran.ru

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Moessbauer and X-ray studies of MgO-Fe nanocomposite

S75

*Nadutov, V.M.; Vojnash, V.Z.; Perekos, A.O.; Svistunov, E.O. (G.V. Kurdyumov Inst. for Metal
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STRUCTURE

Emission Moessbauer spectroscopy of grain boundaries of poly- and submicrocrystalline Mo

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TEMPERATURE RANGE 0400-1000 K

Interplay between local structure and magnetic interactions in NaFeAs studied by ⁵⁷Fe Moessbauer spectroscopy

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Presniakov, I.A.; Morozov, I.V.; Sobolev, A.V.; Roslova, M.V.; Volkova, O.S.; Vasiliev, A.N. (Lomonosov Moscow State Univ., Moscow (RU))

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Structural and phase transformations in FeCo/SiO₂ system under high-energy grinding

S75

Lomaeva, S.F.; Maratkanova, A.N.; Elsukov, E.P. (Fiziko-Tekhnicheskij Inst. Ural'skogo Otdeleniya Rossijskoj Akademii Nauk, Izhevsk (RU)), e-mail: LomayevaSF@mail.ru; Petrov, D.A.; Rozanov, K.N. (Inst. Teoreticheskij i Prikladnoj Ehlektrodinamiki Rossijskoj Akademii Nauk, Moscow (RU))

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GRINDING; X-RAY DIFFRACTION

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S75

Sagaradze, V.V.; Zemtsova, N.D.; Anufrieva, E.I.; Shabashov, V.A. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU)), e-mail: korshunov@imp.uran.ru

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**Probe Moessbauer spectroscopy of structural-phase transformations under
mechanical activation of copper in different media**

S75

Elsukov, E.P.; Lomaeva, S.F.; Ul'yanov, A.L.; Eremina, M.A. (Fiziko-Tekhnicheskij Inst. UrO RAN, Izhevsk (RU)), e-mail: mrere@mail.ru

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mekhanoaktivatsii medi v raznykh sredakh

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Moessbauer study of structure transformations upon annealing of FePd alloy after severe plastic deformation

S75

Klejnerman, N.M.; Serikov, V.V.; Vlasova, N.I.; Popov, A.G. (Inst. Fiziki Metallov, Ural'skoe Otdelenie Rossijskoj Akademii Nauk, Ekateriburg (RU)), e-mail: kleinerman@imp.uran.ru

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Moessbauer studies of phase formation under high energy mechanical treatment

of Fe and Al powders in the Fe₃Al₆ and FeAl₉ system

S75

Elsukov, E.P.; Protasov, A.V.; Ul'yanov, A.L. (Fiziko-Tekhnicheskij Inst. UrO RAN, Izhevsk (RU)); Kolodkin, D.A. (Izhevskij Gosudarstvennyj Tekhnicheskij Univ. im. M.T. Kalashnikova, Izhevsk (RU)), e-mail: denchkol88@gmail.com

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Effect of frictional impact on nitrogen distribution in high-nitrogen chromium-manganese austenitic steel

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Shabashov, V.A.; Korshunov, L.G.; Sagaradze, V.V.; Chernenko, N.L.; Litvinov, A.V.; Lyashkov, K.A.; Zamatovskij, A.E. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU)), e-mail: korshunov@imp.uran.ru

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Using of preliminary surface oxidation for mechanical synthesis of oxide strengthened materials

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Kozlov, K.A.; Sagaradze, V.V.; Shabashov, V.A.; Litvinov, A.V.; Kataeva, N.V. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU)), e-mail: kozlov@imp.uran.ru

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Lyashkov, K.A.; Kozlov, K.A.; Shabashov, V.A.; Litvinov, A.V. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU)), e-mail: lyashkov@imp.uran.ru

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METALLURGICAL EFFECTS; GRINDING

Secondary phase precipitations in beryllium by means of Moessbauer spectroscopy

S75

Gladkov, V.P.; Martynenko, S.S.; Petrov, V.I. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), e-mail: Mephistt@mail.ru

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Hyperfine fields and local magnetic moments on Fe and impurity atoms in amorphous Fe₇₀Ti₅B₂Si₅ (T = Al, Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu) alloys S75

Pokatilov, V.S.; Pokatilov, V.V. (Moskovskij Gosudarstvennyj Tekhnicheskij Univ. Radiotekhniki, Ehlektroniki i Avtomatiki, Moscow (RU)), e-mail: pokatilov@mirea.ru

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RANGE 0273-0400 K; IRON 57; MAGNETIC MOMENTS; HYPERFINE STRUCTURE

Local structure of amorphous Fe₇₀B₂Si₅-xSi_x (x = 0-20) alloys S75

Pokatilov, V.S.; Pokatilov, V.V. (Moskovskij Gosudarstvennyj Tekhnicheskij Univ. Radiotekhniki, Ehlektroniki i Avtomatiki, Moscow (RU)), e-mail: pokatilov@mirea.ru

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Initial stage of mechanical alloying of Si with Fe and structural deformation-induced transformation in Si

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Elsukov, E.P.; Ulianov, A.L.; Porsev, V.E.; Rybin, D.S. (Physical-Technical Inst. UrB RAS, Izhevsk (RU)); Protasov, A.V. (Inst. of Metal Physics UrB RAS, (RU)), e-mail:

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Atomic transport kinetics during dissolution of intermetallics in iron alloys at low-rate cold megadeformation

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Shabashov, V.A.; Sagaradze, V.V. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU)), e-mail: shabashov@imp.uran.ru

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Stratification of nickel in slow reverse martensite transformation in the Fe-32%Ni alloy and change of thermal coefficient of linear expansion

S75

Shabashov, V.A.; Sagaradze, V.V.; Kositsyna, I.I. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU)), e-mail: kositsyna@imp.uran.ru

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Effect of annealing of carbon steel on changes in crystal structure of cementite S75

Schastlivtsev, V.M.; Tabatchikova, T.I.; Yakovleva, I.L.; Klejnerman, N.M.; Serikov, V.V. (Inst. Fiziki Metallov UrO RAN, Ekaterinburg (RU)), e-mail: tabat@imp.uran.ru

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Magnetic ordering in nitrogen containing austenite under isothermal conditions

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Moessbauer study of microbial iron reduction process in iron containing natural biotite and glauconite

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Shapkin, A.A.; Chistyakova, N.I.; Rusakov, V.S. (Moskovskij Gosudarstvennyj Univ. im. M.V. Lomonosova, Moscow (RU)), e-mail: alexeyshapkin@gmail.com; Zhilina, T.N.; Zavarzina, D.G. (Inst. Mikrobiologii im. S.N. Vinogradskogo RAN, Moscow (RU))

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Tkachenko, M.V.; Tyutereva, K.V.; Zyman, Z.Z.; Ol'khovik, L.P. (V.N. Karazin Kharkiv National Univ., Kharkiv (UA)), e-mail: mykola.v.tkachenko@univer.kharkov.ua; Kamzin, A.S. (A.F. Ioffe Physico-Technical Inst. of RAN, St.-Petersburg (RU))

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The effect of pH on the reaction rate of 4-n-hexylresorcinol with iron(III) in

aqueous solutions: the role of the environment in oxidative degradation of microbial autoregulators

S75

Kamnev, A.A.; Dykman, R.L. (Federal'noe Gosudarstvennoe Byudzhetnoe Uchrezhdenie Nauki Inst. Biokhimii i Fiziologii Rastenij i Mikroorganizmov Rossijskoj Akademii Nauk, Saratov (RU)), e-mail: aakamnev@ibppm.sgu.ru; Kovach, K.; Kuzmann, Eh. (Inst. Khimii, Univ. im. L. Ehtvesha, Budapesht (HU))

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Application of Moessbauer spectroscopy for the interpretation of results of histological examination of iron containing compounds in the brain of rat

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Polikarpov, D.M.; Gabbasov, R.R.; Cherepanov, V.M.; Panchenko, V.Ya. (Natsional'nyj Issledovatel'skij Tsentr Kurchatovskij Inst., Moscow (RU)), e-mail: polikarpov.imp@gmail.com; Deev, S.M.; Nikitin, M.P. (Inst. Bioorganicheskoy Khimii RAN, Moscow (RU)); Korshunov, V.A. (Inst. Vysshej Nervnoj Deyatel'nosti i Nejrofiziologii RAN, Moscow (RU)); Chuev, M.A. (Fiziko-Tekhnologicheskij Inst. RAN, Moscow (RU))

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Study of green rust formation in presence of humic substances using Moessbauer spectroscopy

S75

Sorkina, T.A.; Pankratov, D.A.; Perminova, I.V. (Khimicheskij Fakul'tet MGU imeni M.V. Lomonosova, Moscow (RU)), e-mail: sorkina@org.chem.msu.ru; Polyakov, A.Yu.; Gol'dt, A.E. (Fakul'tet Nauk o Materialakh MGU imeni M.V. Lomonosova, Moscow (RU))

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Hyperfine interactions, charge-compensation mechanism and distribution of tin dopant cations in rare earth orthochromites RCrO₃ (R=Sm, Eu, Gd, Ho)

S75

Fabrichnyj, P.B.; Afanasov, M.I.; Mezhuev, E.M.; Astashkin, R.A. (Khimicheskij Fakul'tet MGU im. M.V. Lomonosova, Moscow (RU)), e-mail: pf@radio.chem.msu.ru; Vattio, A.; Border, C.; Labryuzher, K.; Del'mas, K. (Inst. Khimii Kondensirovannogo Sostoyaniya Bordo, Pessak (FR))

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Higher oxidation states of iron studied by means of Moessbauer effect

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Perfil'ev, Yu.D.; Dedushenko, S.K. (Moskovskij Gosudarstvennyj Univ. im. M.V. Lomonosova, Moscow (RU)), e-mail: perf@radio.chem.msu.ru

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Nature of polynuclear associates in catalytic systems of Ziegler-Natta type **S75**

Brodskij, A.R. (Inst. Organicheskogo Kataliza i Ehlektrokhimii im. D.V. Sokol'skogo, Almaty (KZ)), e-mail: albrod@list.ru

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Ferrospheres from fly ashes as catalysts of methane oxidation **S75**

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Isomorphic substitution of iron in a trigonal iron vanadate

S75

*Pankratov, D.A. (Moskovskij Gosudarstvennyj Univ. im. M.V. Lomonosova, Moscow (RU)), e-
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M_xFe_{3-x}V₃O₁₂, M-Al, Cr, Mn, Co

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Cation ordering in Sr(Fe_{1-x}Co_x)_{0.9}Ga_{0.1}O_{2.5} brownmillerites **S75**

Pokholok, K.V.; Filimonov, D.S.; Buntseva, I.M. (Khimicheskij Fakul'tet MGU im. M.V. Lomonosova, Moscow (RU)), e-mail: kyp@radio.chem.msu.ru

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Kationnoe uporyadochenie v Sr(Fe_{1-x}Co_x)_{0.9}Ga_{0.1}O_{2.5} so strukturoj tipa braunmillerita

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Features of magnetic hyperfine interactions of ⁵⁷Fe in AFeO₃ (A=Sc, In) **S75**

Sobolev, A.V.; Presniakov, I.A. (Lomonosov Moscow State Univ., Moscow (RU)), e-mail: alex@radio.chem.msu.ru; Belik, A.A. (International Center for Materials Nanoarchitectonics (MANA), National Inst. for Material Science (NIMS), Tsukuba (JP))

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Kinetics of intratrack ion-electron recombination and out diffusion of the Auger-blob formed by radioactive transformation of ^{57}Co in frozen aqueous medium S75

Byakov, V.M. (MGU im. M.V. Lomonosova, Khimicheskij Fakul'tet, Moscow (RU); GNTs RF ITEhF, Moscow (RU); RKhTU im. D.I. Mendeleeva, Moscow (RU)); Perfil'ev, Yu.D.; Kulikov, L.A. (MGU im. M.V. Lomonosova, Khimicheskij Fakul'tet, Moscow (RU)), e-mail: perf@radio.chem.msu.ru; Stepanov, S.V. (MGU im. M.V. Lomonosova, Khimicheskij Fakul'tet, Moscow (RU); GNTs RF ITEhF, Moscow (RU)), e-mail: stepanov@itep.ru

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Effect of swift heavy ion irradiation on the short range order in novel electrodeposited ternary amorphous alloys

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Aminolysis of Z-4-furylindene oxazoline-5-one derivatives- configuration and kinetics

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Yaskevich, V.A.; Brodskij, A.R.; Zakarina, N.A.; Volkova, L.D.; Ajtuganova, Sh.Zh. (Inst. Organicheskogo Kataliza i Ehlektrokhimii im. D.V. Sokol'skogo, Almaty (KZ)), e-mail: albrod@list.ru

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Dedushenko, S.K.; Kulikov, L.A.; Perfil'ev, Yu.D. (MGU im. M.V. Lomonosova, Khimicheskij Fakul'tet, Moscow (RU)), e-mail: perf@radio.chem.msu.ru

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Impurity centers of tin in glassy arsenic chalcogenides

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Kozhokar, M.; Anisimova, N.; Marchenko, A.; Seregin, P. (Alexander Herzen State Pedagogical Univ. of Russia, St. Petersburg (RU)), e-mail: m-kozhokar@mail.ru

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Diagnosis catalysts based on binuclear iron complexes with macrocyclic Schiff bases by Moessbauer spectroscopy

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Pankratov, D.A.; Rodionova, L.I.; Borisova, N.E.; Smirnov, A.V. (Moskovskij Gosudarstvennyj Univ. im. M.V. Lomonosova, Moscow (RU)), e-mail: pankratov@radio.chem.msu.ru

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Pyataev, A.V.; Manapov, R.A. (Kazan (Volga Region) Federal Univ., Kazan (RU)), e-mail:

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Sobolev, A.V.; Cherkasov, N.N.; Presniakov, I.A.; Saviolov, S.V.; Ivanov, A.S.; Lunin, V.V. (Lomonosov Moscow State Univ., Moscow (RU)), e-mail: alex@radio.chem.msu.ru

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Moessbauer spectroscopy of new layered antimonates A_4FeSbO_{16} (A=Li, Na) **S75**

Sobolev, A.V.; Presniakov, I.A.; Zvereva, E.A.; Savelieva, O.A.; Vasiliev, A.N. (Lomonosov Moscow State Univ., Moscow (RU)), e-mail: alex@radio.chem.msu.ru; Evstigneeva, M.A.; Nalbandyan, V.B. (Chemistry Faculty, Southern Federal Univ., Rostov-on-Don (RU)); Lin, J.-Y. (National Chiao Tung Univ., Hsinchu, Taiwan (CN)); Buechner, B. (Leibniz Inst. for Solid State and Materials Research IFW Dresden, Dresden (DE))

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Fine structural peculiarities of 2:1 dioctahedral Fe-rich trans-vacant phyllosilicates using Moessbauer spectroscopy combined with the crystal-chemical model **S75**

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Dainyak, L.G.; Drits, V.A. (Geological Inst. of the Russian Academy of Science, Moscow (RU)), e-mail: dainyak@ginras.ru; Rusakov, V.S. (Lomonosov Moscow State Univ., Moscow (RU))

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Moessbauer spectroscopy of iron compounds in #Left-Pointing Double Angle Quotation Mark#natural#Right-Pointing Double Angle Quotation Mark# laboratories of Earth group planets

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Zalutskij, A.A.; Kuz'min, R.N.; Sed'mov, N.A. (Yaroslavskij Gosudarstvennyj Tekhnicheskij Univ., Yaroslavl' (RU); Moskovskij Gosudarstvennyj Univ. im. M.V. Lomonosova, Moscow (RU)), e-mail: zalutskii@mail.ru

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Study of Chinga meteorite fragment using X-ray diffraction and Moessbauer spectroscopy with a high velocity resolution: preliminary results

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Pyataev, A.V.; Manapov, R.A.; Shinkarev, A.A.; Giniyatullin, K.G. (Kazanskij (Privolzhskij) Federal'nyj Univ., Kazan' (RU)), e-mail: 151Eu@mail.ru

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Investigation of the spin reorientation under the applied field in the antiferromagnetically coupled [Fe/Cr]_n multilayer by the nuclear resonant reflectometry

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Setup for the observation of the Moessbauer effect under ion irradiation

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Belov, S.E.; Ershov, K.V. (Faculty of Physics, Sankt-Petersburg State Univ., Sankt-Petersburg (RU)), e-mail: ingelle@mail.ru, belov@nuclpc1.phys.spbu.ru

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Vagizov, F.G.; Sadykov, Eh.K. (Kazanskij (Privolzhskij) Federal'nyj Univ., Kazan' (RU)), e-mail: vagizov@hotmail.com; Kocharovskaya, O.A. (Inst. Prikladnoj Fiziki RAN, Nizhnij

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*Semionkin, V.A.; Oshtrakh, M.I. (Dept. of Physical Techniques and Devices for Quality Control
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Vasil'ev, S.A.; Samsonov, V.M. (Tverskoj Gosudarstvennyj Univ., Kafedra Teoreticheskoy Fiziki, Tver' (RU)), e-mail: vsa812@yandex.ru

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Eremin, T.V. (Fizicheskij Fakul'tet MGU im. M.V. Lomonosova, Moscow (RU); Inst. Obshchej Fiziki im. A.M. Prokhorova RAN, Moscow (RU)), e-mail: alt_tima@mail.ru; Tonkikh, A.A.; Fedotov, P.V.; Obratsova, E.D. (Inst. Obshchej Fiziki im. A.M. Prokhorova RAN, Moscow (RU))

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Investigation of selectively grown single-wall carbon nanotubes

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Iontsev, M.A.; Mukhin, S.I. (Federal'noe Gosudarstvennoe Avtonomnoe Obrazovatel'noe Uchrezhdenie Vysshego Professional'nogo Obrazovaniya Natsional'nyj Issledovatel'skij Tekhnologicheskij Univ. MISiS, Moscow (RU)), e-mail: Mikhail.iontsev@gmail.com

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Kovalenko, S.L. (Moskovskij Fiziko-Tekhnicheskij Inst. (Gosudarstvennyj Univ.), Dolgoprudnyj (RU)), e-mail: stanislav.l.kovalenko@gmail.com; Andryushechkin, B.V. (Inst. Obshchej Fiziki im. A.M. Prokhorova RAN, Moscow (RU)); El'tsov, K.N. (Moskovskij Fiziko-Tekhnicheskij Inst. (Gosudarstvennyj Univ.), Dolgoprudnyj (RU)); Inst. Obshchej Fiziki im. A.M. Prokhorova RAN, Moscow (RU))

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Kolentsova, O.S.; Vasil'evskij, I.S.; Eremin, I.S.; Kargin, N.I.; Strikhanov, M.N. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), e-mail: nordy-olga@mail.ru; Kozhanov, A.E. (Georgia State Univ., Atlanta, GA (US))

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Local structure of Ni(III) surface in iodination reaction

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Mazaletskij, L.A.; Rudyj, A.S. (YarGY im. P.G. Demidova, Yaroslavl' (RU)); Naumov, V.V. (YaF FTIAN RAN, Yaroslavl' (RU)), e-mail: boolvink@yandex.ru

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Makarov, V.I.; Borodkin, A.V. (FGBUN Inst. Obshchej Fiziki im. A.M. Prokhorova RAN, Moscow (RU)), e-mail: vi.makarov@physics.msu.ru; Nikolenko, V.N.; Zharova, T.A.; Ivannikov, S.V. (Pervyj Moskovskij Gosudarstvennyj Meditsinskij Univ. imeni I.M. Sechenova, Moscow (RU)); Loshchenov, V.B. (FGBUN Inst. Obshchej Fiziki im. A.M. Prokhorova RAN, Moscow (RU)); Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU))

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p. 333

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SURFACES; MOLYBDENUM; LASER RADIATION; PULSES; WAVELENGTHS;
MICROSTRUCTURE

Development of method of reconstruction of particle track in the drift chamber **S71**

Selyakov, V.A.; Dmitrieva, A.N.; Zadeba, E.A.; Shutenko, V.V. (National Research Nuclear Univ. MEPhI, Scientific and Educational Centre NEVOD, Moscow (RU)), e-mail: v.selyakov@yandex.ru; Kozhin, A.S. (State Scientific Centre Inst. of High Energy Physics, Protvino (RU))

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CHARGED PARTICLES; DRIFT CHAMBERS; PARTICLE TRACKS; ELECTRIC FIELDS;
LEAST SQUARE FIT

Vacuum creation of charged particles: some integral relations

S71

Chertilin, A.V. (National Research Nuclear Univ. MEPhI, Moscow (RU)); Lavkin, A.G.; Sitalieva, R.S.; Smolyansky, P.I. (Saratov State Univ., Saratov (RU)), e-mail: wigiter@gmail.com

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CHARGED PARTICLES; CREATION OPERATORS; VACUUM STATES;
WAVELENGTHS; ELECTRIC FIELDS; KINETICS

Strength and ductility optimization of nanostructured metal

S36

Nefedova, E.V. (National Research Nuclear Univ. MEPhI, Moscow (RU)), e-mail: evgeniya_nefedova_1992@mail.ru

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7 refs., 3 figs.

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NANOPARTICLES; TRANSITION ELEMENTS; DUCTILITY; NANOMATERIALS; GRAIN SIZE; SINTERING; ELECTRIC SPARKS; OPTIMIZATION

Thermal physics of fast reactors (Thermal physics-2013). Book of reports at the Conference Thermal physics-2013

S22;S42

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

Thermal physics of fast reactors (Thermal physics-2013)

Obninsk (RU)

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Teplofizika reaktorov na bystrykh nejtronakh (Teplofizika-2013)

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LEADING ABSTRACT; MEETINGS; THERMAL HYDRAULICS; HYDRODYNAMICS; COOLANTS; LIQUID METALS; HEAT TRANSFER; MASS TRANSFER; MATHEMATICAL MODELS; COMPUTER CODES; FAST REACTORS; EQUIPMENT; MEASURING INSTRUMENTS

In the book there are reports concerning the status and problems of investigations in the field of hydrodynamics, heat transfer and safety in justification of fast reactors with different liquid metal coolants (LMC); thermophysical properties of LMC and processes in them; investigations of mass transfer and development of sodium and heavy LMC technologies; development of measuring techniques, sensors, devices, equipment and processes for operation with LMC; development and verification of thermohydraulic codes and numerical simulation of thermohydraulic processes; research in justification of new innovation reactor technologies (molten-salt, high-temperature sodium, thermonuclear, space nuclear power reactors)

Сборник включает доклады, отражающие состояние и проблемы исследований в области гидродинамики, теплообмена и безопасности в обоснование реакторов на быстрых нейтронах с различными жидкометаллическими теплоносителями (ЖМТ); теплофизических свойств ЖМТ и процессов в них; исследований массопереноса и разработки технологии натриевого и тяжелых ЖМТ; разработки методов измерений, датчиков, приборов, оборудования и технологических процессов при работе с ЖМТ; разработки и верификации теплогидравлических расчетных кодов и проведения численного моделирования теплогидравлических процессов; проведения исследований в обоснование инновационных реакторных технологий (жидкосолевой, высокотемпературный натриевый, термоядерный, космический ядерный энергетический реакторы)

Electronuclear subcritical blanket on reactor core modularity with liquid salt melts of fissile uranium (UF₄) and plutonium (PuF₃) fluorides in FLINAK fluoride solution

S21

Goverdovskij, A.A.; Ovcharenko, M.K.; Belinskij, V.S.; Pyshko, A.P.; Sulim, A.T.; Shcherbakov, S.I. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

Thermal physics of fast reactors (Thermal physics-2013)

Obninsk (RU)

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Teplofizika reaktorov na bystrykh nejtronakh (Teplofizika-2013)

Ehlektrjadernyj podkriticheskiy blanket na modul'nom printsipe postroeniya aktivnoj zony s zhidkosolevymi rasplavami delyashchikhsya ftoridov urana (UF₄) i plutoniya (PuF₃) vo ftoridnom rastvore FLINAK

p. 9-21

(RU)

5 refs., 21 figs., 4 tabs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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FUEL CYCLE; CLOSED-CYCLE SYSTEMS; URANIUM FLUORIDES; PLUTONIUM FLUORIDES; NEUTRON REACTIONS; PROTON REACTIONS; BREEDING BLANKETS; REACTOR CORES; REACTOR SAFETY; MOLTEN SALTS; SODIUM; COOLANTS; NEUTRON FLUENCE; HEAT TRANSFER; TEMPERATURE DISTRIBUTION; TEMPERATURE DEPENDENCE; DESIGN; EQUIPMENT; ACCELERATOR DRIVEN TRANSMUTATION

The suggested scheme of electronuclear subcritical molten salt blanket meets completely the concept of research subcritical system both according to neutronics and technological aspects of developing the main problem- on-site nuclear fuel cycle closure in atomic energetics with WWER-type reactors. The considered technical solutions of electronuclear subcritical molten salt blanket modularity have conceptual character and can be the factors verifying the feasibility of the project of research subcritical blanket on the melts of fissile fluorides in FLINAK fluoride melt

Предложенная схема электроядерного жидкосолевого подкритического blankets наиболее полно соответствует концепции исследовательской подкритической системы как по нейтронно-физическим, так и по технологическим аспектам по отработке главной задачи - замыканию пристанционного топливного цикла в атомной энергетике с реакторами типа ВВЭР. Рассмотренные технические решения модульного построения электроядерного жидкосолевого подкритического blankets носят характер концептуальных и могут служить в качестве подтверждающих факторов осуществимости проекта исследовательского подкритического blankets на расплавах делящихся фторидов во фторидном расплаве FLINAK

Thermohydraulic investigations of nuclear power facilities (to the 60-th anniversary of the First NPP start)

S22

Rachkov, V.I.; Efanov, A.D.; Zhukov, A.V.; Kalyakin, S.G.; Sorokin, A.P. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

Thermal physics of fast reactors (Thermal physics-2013)

Obninsk (RU)

30 Oct - 1 Nov 2013

Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Теплогидравлические исследования ЯЭУ (к 60-летию пуски Первой АЭС)

p. 22-38

(RU)

63 refs., 10 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

Thermal physics of fast reactors (Thermal physics-2013). Book of reports at the Conference Thermal physics-2013

Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013). Сборник докладов на конференции Теплофизика-2013

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THERMAL HYDRAULICS; NUCLEAR FACILITIES; COOLANTS; LIQUID METALS; PHASE TRANSFORMATIONS; MATHEMATICAL MODELS; NUMERICAL SOLUTION; THERMODYNAMIC PROPERTIES; TWO-PHASE FLOW; IMPURITIES; FAST REACTORS; REACTOR SAFETY; REACTOR CHANNELS

The investigations conducting in SSC RF - IPPE are aimed to develop theory and create calculational programs which allow to obtain the detailed description of coolant velocity fields and temperatures in any channels and equipment units of nuclear power facilities. Specially developed sensors for measuring various parameters are used in the experiments. Mathematical models and numerical methods are generalized for description and numerical solution of compressible fluids, multiphase and multifluid systems. The programs which allow to determine hydrodynamic and thermotechnical characteristics with account for melting, solidification, boiling processes are established. The obtained data is the base for creating the two-phase media flow theory. The study of the processes of impurity formation, transport and precipitation in liquid metal coolants has been allowed to develop the methods of impurity mass transfer simulation in circuits. For solving the fast reactor safety problem the series of investigations on liquid metals physics, boiling and condensation have been carried out

Проводимые в ГНЦ РФ - ФЭИ исследования направлены на развитие теории и создание расчетных программ, позволяющих получить детальное описание полей скоростей теплоносителя и температур в любых каналах и узлах оборудования ядерных энергетических установок. Эксперименты проводятся с помощью специально разработанных датчиков для измерения различных параметров. Математические модели и численные методы обобщены для описания и численного решения сжимаемых жидкостей, многофазных и многожидкостных систем. Разработаны программы, позволяющие определять гидродинамические и теплотехнические характеристики с учетом процессов плавления, затвердевания, кипения. На основе полученных данных разрабатывается теория течения двухфазных сред. Изучение процессов образования, переноса и осаждения примесей в жидкометаллических теплоносителях позволило разработать методы моделирования массопереноса примесей в контурах. Для решения проблемы безопасности быстрых реакторов проведена серия исследований физики, кипения и конденсации жидких металлов

Analysis of actual status of works on technology of heavy liquid metal coolants S22

Martynov, P.N.; Askhadullin, R.Sh.; Orlov, Yu.I.; Storozhenko, A.N. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

Thermal physics of fast reactors (Thermal physics-2013)

Obninsk (RU)

30 Oct - 1 Nov 2013

Teplofizika reaktorov na bystrykh nejtronakh (Teplofizika-2013)

Analiz sovremennogo sostoyaniya rabot po tekhnologii TZhMT

p. 39-48

(RU)

8 refs., 5 figs., 1 tab.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

Thermal physics of fast reactors (Thermal physics-2013). Book of reports at the Conference Thermal physics-2013

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604 p.

COOLANTS; LIQUID METALS; LEAD; LEAD ALLOYS; BISMUTH ALLOYS; REACTOR COOLING SYSTEMS; IMPURITIES; PURIFICATION; CORROSION; OXYGEN POTENTIAL; EUTECTICS; HYDROGEN; FILTRATION; CORROSION PRODUCTS; AEROSOLS; REACTOR SAFETY; THERMAL HYDRAULICS; FAST REACTORS

Principle duties in heavy liquid metal coolant technology (HLMC) are provision of the purity of coolant and surfaces of circulation loop for maintenance of design thermohydraulic characteristics, prevention of structural materials corrosion and erosion during long service life and present-day safety precautions on different stages of reactor facility operation. For this reason, current HLMC (Pb-Bi, Pb) technology must include coolant pre-operation and charging; monitoring and regulating of coolant oxygen potential; hydrogen purification of coolant and surfaces of circulation loop from lead oxides-based slags; coolant filtration; reactor cover gas purification from coolant aerosols. The current topical problem is personnel training on the questions of HLMC technology

Основными задачами технологии тяжелых жидкометаллических теплоносителей (ТЖМТ) являются: обеспечение чистоты теплоносителя и поверхностей циркуляционного контура для поддержания проектных теплогидравлических характеристик, предотвращение коррозии и эрозии конструкционных материалов при длительных ресурсах работы и обеспечение современных требований безопасности на различных этапах эксплуатации реакторной установки. Поэтому современная технология ТЖМТ (Pb-Bi, Pb) должна включать подготовку теплоносителя и его загрузку; контроль и регулирование кислородного потенциала теплоносителя; водородную очистку теплоносителя и поверхностей циркуляционного контура от шлаков на основе оксидов свинца; фильтрацию теплоносителя; очистку защитного газа от аэрозолей теплоносителя. Актуальным вопросом в настоящее время является подготовка кадров по вопросам технологии ТЖМТ

Liquid metal coolants for space nuclear power units

S22

Arnol'dov, M.N.; Kozlov, F.A.; Loginov, N.I.; Sorokin, A.P. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

Thermal physics of fast reactors (Thermal physics-2013)

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Zhidkometallicheskie teplonositeli dlya kosmicheskikh yadernykh ehnergeticheskikh ustanovok p. 49-65

(RU)

13 refs., 17 figs., 1 tab.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

Thermal physics of fast reactors (Thermal physics-2013). Book of reports at the Conference Thermal physics-2013

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LITHIUM; SODIUM ALLOYS; POTASSIUM ALLOYS; EUTECTICS; THERMODYNAMIC PROPERTIES; LIQUID METALS; COOLANTS; COMPARATIVE EVALUATIONS; SPACE PROPULSION REACTORS; REACTOR SAFETY; IMPURITIES; REACTOR COOLING SYSTEMS; SAMPLING; HEAT TRANSFER

The consideration is given to the results of investigations conducting in IPPE from the 1950s on the technology and heat transfer of liquid metal coolants (lithium and sodium-potassium eutectic alloy) of space nuclear power plants (SNPP). The advantage of lithium coolant is its low density, splendid heat-transfer properties, high boiling point, low saturated vapor pressure, low activation when passing through reactor core, etc. Its disadvantage is high melting point and the higher corrosion activity than sodium-potassium alloy one. Prospects of lithium coolant use in developing current powerful SNPP are shown. Reliable operation of liquid metal part (with sodium-potassium coolant) of SNPP of low power and limited life at satellites launching in the USSR in 1970-80s is pointed out

Рассмотрены результаты проводимых в ФЭИ с середины прошлого века исследований по технологии и теплообмену жидкометаллических теплоносителей (литий и эвтектический сплав натрия-калия) космических ядерных энергетических установок (ЯЭУ).

Преимуществом литиевого теплоносителя является его низкая плотность, прекрасные теплопередающие свойства, высокая температура кипения, низкое давление насыщенных паров, малая активация при прохождении активной зоны и др. Его недостатком является высокая температура плавления и более высокая коррозионная активность, чем натрий-калиевого сплава. Показаны перспективы использования литиевого теплоносителя при создании современных мощных космических ЯЭУ. Отмечается надежная работа жидкометаллической части (с натрий-калиевым теплоносителем) космических ЯЭУ

небольшой мощности и ограниченного ресурса на искусственных спутниках, запущенных в СССР в 70-80-х годах прошлого века

Regularities of hydraulic irregularities formation at the reactor facility collector system outlet

S21

Gabrianovich, B.N.; Del'nov, V.N. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

Thermal physics of fast reactors (Thermal physics-2013)

Obninsk (RU)

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Zakonomernosti formirovaniya gidravlicheskih neravnomernostej na vykhode iz kollektornoj sistemy reaktornoj ustanovki

p. 66-74

(RU)

25 refs., 6 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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WWER TYPE REACTORS; REACTOR COOLING SYSTEMS; HYDRODYNAMICS; COOLANTS; FLUID FLOW; DUCTS; BENCHMARKS; MATHEMATICAL MODELS; JETS; OPTIMIZATION; FLOW RATE

Theoretical and experimental studies of hydrodynamics of flow paths of axisymmetrical collector systems (CS) of cylindrical and plane forms with different variants of coolant input and output have been carried out. The regularities of hydraulic irregularities generation in the CS output of WWER type reactor facility have been ascertained. It is shown that position of the maximal coolant velocity in the outlet of the grid coincides with position of maximal velocity in the core of the jet falling on it, and the value of the maximal average coolant velocity in grid openings is proportional to the value of average coolant velocity in jet falling on it. It is pointed out that in CS flow paths coolant flow has complex hydrodynamic structure and is determined mainly by ratio of dimensions and CS design, coolant flow in its flow path and ratio of pressure drop in CS input and output. The data obtained make it possible to optimize hydrodynamics of considered CS without expensive experiments

Проведены теоретические и экспериментальные исследования гидродинамики проточных частей осесимметричных коллекторных систем (КС) цилиндрической и плоской форм с различными вариантами подвода теплоносителя в коллектор и отвода из него.

Установлены закономерности формирования гидравлических неравномерностей на выходе из КС реакторной установки типа ВВЭР. Показано, что положение максимальной

скорости теплоносителя на выходе из решетки совпадает с положением максимальной скорости в ядре падающей на нее струи, а величина максимальной средней скорости теплоносителя в отверстиях решетки пропорциональна величине средней скорости теплоносителя в падающей на нее струе. Отмечается, что в проточных частях КС течение теплоносителя имеет сложную гидродинамическую структуру и, в основном, определяется соотношением размеров и конструкцией КС, режимом течения теплоносителя в ее проточной части и соотношением гидравлических сопротивлений входного и выходного элементов проточной части КС. Полученные данные позволяют оптимизировать гидродинамику рассмотренных КС без проведения дорогостоящих экспериментов

To development of criterion of discharge variation origin in the system of parallel tubes of once-through steam generator

S22

Kornienko, Yu.N. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

Thermal physics of fast reactors (Thermal physics-2013)

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К разработке критерия начала колебаний расхода в системе параллельных труб прямоточного парогенератора

р. 75-83

(RU)

12 refs., 2 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

STEAM GENERATORS; HEAT TRANSFER; INSTABILITY; MATHEMATICAL MODELS; DENSITY; DISTRIBUTION; DIFFERENTIAL EQUATIONS; BENCHMARKS; APPROXIMATIONS

In the frameworks of quasi-steady one-dimensional assumption criteria families in the form of analytical relations have been obtained for boundaries of static instability (SI) and of density waves instability (DWI) of two-phase non-equilibrium flows for steam-generating channels with regard to risers and nonuniform distributions of parameters. Criteria of the beginning of SI and DWI have been derive from the conditions: optimum analysis of the curve of pressure drop and reduction to canonical equation of classical linear damped oscillator. The parameters of these criteria depend nonlinearly on geometric parameters and operating conditions. The obtained analytical solutions of closed linear differential equation system describe the boundaries

(criteria) of the beginning of transition from one stationary state to the other one for SI and DWI and they are benchmarks

В рамках линейного квазистационарного одномерного приближения получены семейства критериев в виде аналитических соотношений для границ статической неустойчивости (СН) и неустойчивости волн плотности (НВП) двухфазных неравновесных потоков для парогенерирующих каналов с учетом подъемных участков и неоднородных распределений параметров. Критерии начала СН и НВП получены соответственно из условий: анализа кривой перепада давления на наличие экстремума и сведения к каноническому уравнению классического линейного осциллятора с затуханием. Параметры этих критериев зависят нелинейным образом от геометрических параметров и режимных условий. Полученные аналитические решения замкнутой системы линейных дифференциальных уравнений описывают границы (критерии) начала перехода из одного стационарного состояния в другое для СН и колебаний НВП и являются бенчмарками

Calculation of hydrodynamics of RU BN-1200 secondary circuit

S42

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Thermal physics of fast reactors (Thermal physics-2013)

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Raschet gidrodinamiki второго контура парогенератора RU BN-1200

p. 84-94

(RU)

2 refs., 17 figs., 1 tab.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

LMFBR TYPE REACTORS; STEAM GENERATORS; HYDRODYNAMICS; SIMULATION; MATHEMATICAL MODELS; C CODES; SECONDARY COOLANT CIRCUITS; AIR; FLUID FLOW

To investigate hydrodynamics of secondary circuit of three-loop (the first and second circuits have sodium, the third one - water-steam) BN-1200 reactor facility steam generator (SG) the aerodynamic bench with SG input/output chamber model is in process. Sodium coolant flow will be simulated by air in the experiments. As a result of coolant flow simulation in the aerodynamic chamber model using FlowSimulation CFD code distribution of air flow in input coolant chamber of aerodynamic model, its pressure drop are determined, fields of velocities and air flow pressure are shown. Nonuniformity of coolant velocity field in intertube space is revealed,

it is connected with design of spacers. The preliminary coefficient of SG pressure drop in secondary loop is calculated

Для исследования гидродинамики второго контура парогенератора (ПГ) трехконтурной (в первых двух контурах находится натрий, в третьем - вода-пар) реакторной установки БН-1200 создается аэродинамический стенд с моделью входной/выходной камеры ПГ. В экспериментах поток натриевого теплоносителя будет моделироваться воздухом. В результате моделирования потока теплоносителя в аэродинамической модели камеры с помощью CFD кода FlowSimulation определено распределение потока воздуха во входной камере теплоносителя аэродинамической модели, ее гидравлическое сопротивление, а также показаны поля скоростей и давления потока воздуха. Выявлена неравномерность поля скоростей теплоносителя в межтрубном пространстве, связанная с конструкцией дистанционирующих решеток. Рассчитан предварительный коэффициент гидравлического сопротивления ПГ по второму контуру

Experimental investigations of temperature fields and coolant movement structure in upper chamber of sodium fast reactor under forced circulation

S42

Opanasenko, A.N.; Sorokin, A.P.; Zaryugin, D.G.; Kosarev, S.A.; Korovin, S.V.; Yaurov, S.V. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Ehksperimental'noe issledovanie polej temperatury i struktury dvizheniya teplonositelya v verkhnej kamere natrievogo bystrogo reaktora pri prinuditel'noj tsirkulyatsii

p. 95-103

(RU)

3 refs., 13 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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COOLANTS; FAST REACTORS; SIMULATION; FLUID FLOW; HEAT TRANSFER; THERMAL HYDRAULICS; TEMPERATURE DISTRIBUTION; BENCHMARKS; REACTOR COOLING SYSTEMS; PRESSURE DROP; REACTOR CORES; MASS TRANSFER; REACTOR COMPONENTS

The problems of simulation and peculiarities of heat-and-mass transfer in stratified coolant flow have been considered. Stable temperature stratification has been pointed out in peripheral area of the upper chamber, in cold and pressure chambers, in reactor vessel cooling system, in the output of intermediate heat exchanger under forced circulation on different power levels. On stratified

interfaces of stagnant and recirculating formations large temperature gradients and pulsations effecting on durability of in-reactor components have been determined. The results obtained will be used for justification of the service life of working out promising fast reactors in steady-state and, particularly, in transient conditions

Рассмотрены вопросы моделирования и особенности тепломассопереноса в стратифицированном потоке теплоносителя. Отмечается устойчивая температурная стратификация в периферийной зоне верхней камеры, в холодной и напорной камерах, в системе охлаждения корпуса реактора, на выходе из промежуточного теплообменника при принудительной циркуляции на различных уровнях мощности. На стратифицированных границах раздела застойных и рециркуляционных образований зафиксированы большие градиенты и пульсации температуры, влияющие на долговечность элементов внутриреакторного оборудования. Полученные результаты будут использованы для обоснования ресурса разрабатываемых перспективных быстрых реакторов в стационарных и особенно переходных режимах работы

Simulation of thermal-hydraulic processes in EHRS of BN-1200 reactor on scaled down models with water

S42

Pakholkov, V.V.; Osipov, S.L.; Rogozhkin, S.A.; Shepelev, S.F.; Baluev, D.E.; Nikanorov, O.L. (OAO OKBM Afrikantov, Nizhnij Novgorod (RU))

Thermal physics of fast reactors (Thermal physics-2013)

Obninsk (RU)

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Modelirovanie teplogidravlicheskih protsessov v SAOT reaktora BN-1200 na umen'shennykh modelyakh s vodoj

p. 104-114

(RU)

10 refs., 2 figs., 2 tabs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

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LMFBR TYPE REACTORS; ECCS; HEAT EXCHANGERS; SIMULATION; THERMAL HYDRAULICS; HYDRAULICS; WATER; COOLANTS; MATHEMATICAL MODELS; CORRELATIONS; COMPUTER CODES; VERIFICATION

Similarity criteria have been obtained for thermal-hydraulic model of the reactor sector and intermediate circuit of one loop of special emergency heat removal system (EHRS) and hydraulic model of back-flow valve (test facilities TISEJ and OK, correspondingly). TISEJ-facility is designed to investigate the totality of the processes in EHRS model in conditions close

to reactor ones in design and similarity criteria. Experimental data will be used in complex code verification. Characteristics of back-flow valve of autonomous heat exchanger obtained on ОК-facility can be recalculated for full scale valve

Получены критерии подобия для теплогидравлической модели сектора реактора и промежуточного контура одной петли специальной системы аварийного отвода тепла (САОТ) и гидравлической модели обратного клапана (стенды ТИСЕЙ и ОК, соответственно). Стенд ТИСЕЙ предназначен для исследования совокупности процессов в модели САОТ в условиях, приближенных по конструкции и значениям критериев подобия к реакторным условиям. Экспериментальные данные будут использованы при комплексной верификации кодов. Полученные на стенде ОК характеристики обратного клапана автономного теплообменника могут быть пересчитаны на натуральный клапан

Preparation for sodium boiling investigation in fuel assembly model in safety assessment of fast reactor of new generation

S42

Khafizov, R.R.; Sorokin, A.P.; Privezentsev, V.V.; Ivanov, E.F.; Ashurko, Yu.M.; Volkov, A.V.; Kumskoj, V.V. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

Thermal physics of fast reactors (Thermal physics-2013)

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Podgotovka k provedeniyu issledovaniy kipeniya natriya v modeli TVS v obosnovanie bezopasnosti bystrogo reaktora novogo pokoleniya

p. 115-122

(RU)

18 refs., 3 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

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FAST REACTORS; REACTOR SAFETY; SIMULATION; SODIUM; COOLANTS; MATHEMATICAL MODELS; HEAT TRANSFER; BOILING; LOSS OF COOLANT; REACTIVITY; NATURAL CONVECTION

For safety justification of advanced fast reactors and data generation for COREMELT code verification in IPPE preparation to experiments on heat exchange study in case of sodium coolant boiling in simulative fuel assemblies of reactor core is in process. Calculation investigations show that after coolant boiling-up in power density area, where sodium void reactivity effect is positive, vapor phase shifts into sodium cavity and negative reactivity is brought in reactor core as a result of neutron leakage increase. Power decreases when vapor

entering the sodium cavity and sodium boiling becomes less intensive, then the process repeats. Hence, having such design of fuel assembly in ULOF accident there is the possibility of residual heat removal by natural circulation

Для обоснования безопасности перспективных реакторов на быстрых нейтронах и получения данных для верификации расчетного кода COREMELT в ФЭИ проводится подготовка к проведению экспериментов по изучению теплообмена при возникновении режимов с кипением натриевого теплоносителя в модельных ТВС активной зоны. Расчетные исследования показывают, что после вскипания теплоносителя в зоне энерговыделения, где натриевый пустотный эффект реактивности положителен, паровая фаза перемещается в натриевую полость и в активную зону вносится отрицательная реактивность за счет увеличения утечки нейтронов. При попадании пара в натриевую полость мощность снижается, и кипение натрия становится менее интенсивным, затем процесс повторяется. Следовательно, при такой конструкции ТВС в режиме аварии ULOF существует возможность снятия остаточного тепловыделения в режиме естественной циркуляции

Recalculation of temperatures in the most high-energy fuel element of fuel assemblies in scenarios with loss of coolant flow through reactor core of RU BN-800 using CPCTFA code

S42

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Thermal physics of fast reactors (Thermal physics-2013)

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Poverochnyj raschet temperatur v naibolee ehnergonapryazhennom tvehle TVS v stsenariyakh s umen'sheniem raskhoda teplonositelya cherez aktivnuyu zonu RU BN-800 s ispol'zovaniem koda CPCTFA

p. 123-132

(RU)

7 refs., 12 figs., 2 tabs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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BELOYARSK-4 REACTOR; REACTOR SAFETY; MATHEMATICAL MODELS; LOSS OF FLOW; THERMAL HYDRAULICS; FUEL ASSEMBLIES; FUEL RODS; COMPARATIVE EVALUATIONS

In document Statement of the problem of performing recalculations to safety assessment of Beloyarsk-4 reactor (commissioning phase) it is pointed out that it is necessary to conduct

alternative calculating simulations of scenarios with loss of coolant flow through fuel assembly as a result of primary coolant pump shutdown and by means of partial or complete overlap of the flow cross section of fuel assembly by foreign objects. Software of alternative calculation of hydrodynamics in fuel assembly with fuel rods - CPCTFA code (Calculative Program to Check Thermal-hydraulics in Fuel Assemblies) is developed. Phenomenological regularities and empirical dependences never used earlier in other software for thermohydraulic calculations in fuel assemblies are used. CPCTFA is unique software in which selection of deterministic solution is realized according to criterion of equilibrium self-organization in flow-environment system. The simplicity of this procedure allows to forecast the development of other software on its base with self-adaptation on deterministic solutions

В документе Постановка задачи проведения поверочных расчетов к обоснованию безопасности энергоблока ном. 4 Белоярской АЭС (этап ввода в эксплуатацию) отмечается необходимость проведения альтернативного расчетного моделирования сценариев с уменьшением расхода теплоносителя через ТВС в результате останова одного главного циркуляционного насоса первого контура и за счет частичного или полного перекрытия проходного сечения ТВС посторонними предметами. Разработано программное средство (ПС) альтернативного расчета теплогидравлики в ТВС со стержневыми твэлами - код CPCTFA (Calculative Program to Check Thermal-hydraulics in Fuel Assemblies). В коде использованы феноменологические закономерности и эмпирические зависимости, ранее не применявшиеся в других ПС теплогидравлического расчета ТВС. CPCTFA является единственным ПС, в котором отбор детерминистического решения осуществляется по критерию самоорганизации равновесия в системе поток - внешняя среда. Простота реализации этой методики позволяет прогнозировать создание на ее основе других ПС с самонастройкой на детерминистические решения

Calculation investigation of possibility of melt containment in fast reactor at severe accident

S22

Kashcheev, M.V.; Ashurko, Yu.M. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

Thermal physics of fast reactors (Thermal physics-2013)

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Raschetnoe issledovanie vozmozhnosti uderzhaniya rasplava v bystrom reaktore pri tyazheloj avarii

p. 133-141

(RU)

14 refs., 4 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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LMFBR TYPE REACTORS; REACTOR ACCIDENT SIMULATION; REACTOR SAFETY; REACTOR CORES; REACTOR CORE DISRUPTION; MATHEMATICAL MODELS; B CODES; VERIFICATION; FUEL ELEMENTS; HEAT TRANSFER; AFTER-HEAT REMOVAL

The possibility of after-heat removal in fuel element debris and in-vessel retention is investigated. For retention of destroyed reactor core fragments and their cooling in BN-type reactors a special retaining facility is developed. Facility is designed as reservoir female all reactor pressure chamber. The mathematical model developed is realized in BRUT code. Calculation of the accident when complete melting of fuel elements in the centre of reactor core and partial melting of fuel elements at the periphery of it takes place have been done, as well as the calculation of the accident with complete melting of 12 fuel elements of the first row of reactor core in low-powered BN-type reactor. It is shown that in both cases retention of partially destroyed reactor core in reactor vessel without its melting through is insured

Исследована возможность отвода остаточного энерговыделения в осколках разрушенных ТВЭЛов и удержания расплава в корпусе реактора. Для удержания фрагментов разрушенной активной зоны (АЗ) и их охлаждения в реакторах типа БН разработано специальное устройство (поддон). Устройство выполнено в виде чаши, охватывающей всю напорную камеру реактора. Разработана математическая модель, реализованная в программе БРУТ. Выполнен расчет аварии, при которой происходит полное расплавление ТВС в центре АЗ и частичное расплавление ТВС на ее периферии, а также расчет аварии, при которой происходит полное расплавление 12 ТВС первого ряда АЗ в реакторе типа БН малой мощности. Показано, что в обоих случаях обеспечивается удержание частично разрушенной АЗ в корпусе реактора без его проплавления

Calculation simulation of parameters dynamics in sodium circulation circuit at heat-exchange tube rupture in steam generator

S22

Shvetsov, Yu.E.; Perevoznikov, S.V.; Kamaev, A.A.; Pakhomov, I.A.; Borisov, V.V. (GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)); Pazin, G.N. (IATEh NIYaU MIFI, Obninsk (RU))

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Raschetnoe modelirovanie dinamiki parametrov v natrievom tsirkulyatsionnom konture pri razryve teploobmennoj trubki v PG

p. 142-155

(RU)

5 refs., 5 figs., 1 tab.

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Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

FAST REACTORS; REACTOR COOLING SYSTEMS; SODIUM; WATER; COOLANTS; MATHEMATICAL MODELS; COMPUTERIZED SIMULATION; LEAKS; COMPUTER CODES; COMPARATIVE EVALUATIONS; FLUID FLOW; HYDRODYNAMICS; THERMAL HYDRAULICS

The physico-mathematical model of the processes taking place in sodium circulating circuit of variable flow cross-section at water leakage to sodium is reported. The technique permits to analyze the results of such leakage in respect to sodium-water steam generators of fast reactors. The processes occurring in sodium circulating circuit as a result of water leakage are described in the frameworks of the model of thermally nonequilibrium three-component gas-liquid flow (sodium-hydrogen-sodium hydroxide). The results of preliminary calculations done with the use of calculating code in which the suggested model have been realized are given. Good agreement of experimental and calculated data is achieved

Излагается физико-математическая модель процессов, происходящих в натриевом циркуляционном контуре переменного проходного сечения при течи воды в натрий. Методика позволяет анализировать последствия такой течи применительно к парогенераторам натрий-вода реакторных установок на быстрых нейтронах. Процессы, протекающие в натриевом циркуляционном контуре при возникновении течи воды, описываются в рамках модели термически неравновесного трехкомпонентного газожидкостного потока (натрий-водород-гидроокись натрия). Приводятся результаты предварительных расчетов, выполненных с помощью расчетного кода, в котором была реализована предложенная модель. Получено достаточно хорошее совпадение экспериментальных и расчетных данных

Effect of deviation of heat transfer channel flow section on average coolant heating in reactor core of reactor facility with fuel rods

S42

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Vliyanie otklonenij prokhodnykh sechenij kanalov teploobmena na srednij podogrev teplonosatelya v aktivnoj zone RU so sterzhnevymi tvehlami

p. 156-160

(RU)

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COOLANTS; LIQUID METALS; LEAD ALLOYS; BISMUTH; REACTOR CORES;
REACTOR CHANNELS; HEAT TRANSFER; REACTOR COOLING SYSTEMS;
MATHEMATICAL MODELS; ERRORS; ACCURACY; HYDRAULICS

Deviation of heat transfer channel flow section (FS) on average coolant heating up in reactor core (RC) of reactor facility with lead-bismuth coolant is considered. Deviation of dimensions of heat transfer FS from nominal values is the reason of coolant temperature deviation in channels from the calculated ones and leads to decrease of coolant heating up in RC in reference to designed one. According to the laws of hydraulics formulas for assessment of loss fraction of average coolant heating up the group of parallel channels of equal designed FS with known deviations are obtained in the form convenient for correcting calculations done according to the design parameters. The base is suggested for the formula of assessment of average coolant heating up in RC with account of possible deviations of FS dimensions in channels with equal design FS of calculation RC model. Accuracy of assessment depends on completeness and fidelity of source data. It is pointed out that it is necessary to improve the technique to increase the forecasting accuracy

Рассматривается влияние отклонений проходных сечений (ПС) каналов теплообмена на средний подогрев теплоносителя в активной зоне (АЗ) реакторной установки со свинцово-висмутовым теплоносителем. Отклонение размеров ПС каналов теплообмена от номинальных значений является причиной отклонения температур теплоносителя в каналах от расчетных и приводят к снижению подогрева теплоносителя в АЗ относительно проектного. Согласно законам гидравлики получены формулы оценки доли потери среднего подогрева теплоносителя в группе параллельных каналов одинакового проектного ПС с известными отклонениями в форме удобной для корректировки расчета, выполненного по проектным параметрам. Предложена основа формулы для оценки среднего подогрева теплоносителя в АЗ с учетом возможных отклонений размеров ПС в группах каналов одинакового проектного ПС расчетной модели АЗ. Точность оценки зависит от полноты и достоверности исходных данных. Отмечается необходимость доработки методики для повышения точности прогноза

Velocity measurement in liquid metal flow by correlation technique

S42

Belyaev, I.A.; Poddubnyj, I.V.; Razuvanov, N.G.; Sviridov, V.G. (Moskovskij Ehnergeticheskij Inst. (Tekhnicheskij Univ.) - MEhI, Moscow (RU))

Thermal physics of fast reactors (Thermal physics-2013)

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30 Oct - 1 Nov 2013

Teplofizika reaktorov na bystrykh nejtronakh (Teplofizika-2013)

Izmerenie skorosti korrelyatsionnym metodom v potoke ZhM

p. 161-169

(RU)

10 refs., 13 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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MERCURY; COOLANTS; REACTOR COOLING SYSTEMS; TUBES; LIQUID FLOW; FLOW RATE; FLOWMETERS; TEMPERATURE DISTRIBUTION

Possible measuring techniques of mercury flow in tube under conditions of uniform heating are considered. The method of correlation measurements is described in details. The results of longitudinal component of velocity measurements by this technique are probable, it is usable for local velocity measurements in nonisothermal flow of liquid metal. The technique has limitations. It is pointed out that correlation technique in some cases is the singular one which allows to conduct measurements in nonisothermal flow of liquid metal at rather high level of pulsations

Рассмотрены возможные методы измерения течения ртути в трубе в условиях однородного обогрева. Подробно описан метод корреляционных измерений. Результаты измерений продольной компоненты скорости этим методом правдоподобны, он пригоден для локальных измерений скорости в неизотермическом потоке жидкого металла. Метод обладает ограничениями. Отмечается, что корреляционный метод является в ряде случаев единственным, позволяющим проводить измерения в неизотермическом потоке жидкого металла при наличии достаточно высокого уровня пульсаций

Implementation of technology for reliability, safety and risk monitoring on BN-600 power unit

S22

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Thermal physics of fast reactors (Thermal physics-2013)

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Vnedrenie tekhnologii monitoringa nadezhnosti, bezopasnosti i riska na ehnergobloke s reaktorom BN-600

p. 170-174

(RU)

4 refs., 1 fig.

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Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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BELOYARSK-3 REACTOR; REACTOR SAFETY; RISK ASSESSMENT; REACTOR MONITORING SYSTEMS; REACTOR OPERATION; RELIABILITY; DECISION MAKING

For assessment of current safety level of Beloyarsk-3 reactor by probabilistic methods and for risk-informed decision supports during operation the reliability, safety and risk monitoring system of nuclear unit is developed and is putting into practice. The base of this system is the risk monitoring system RIM, which uses logico-probabilistic models of nuclear unit improved for risk monitoring aids. Risk monitoring system RIM is interconnected with maintenance and repair planning system of Beloyarsk-3 reactor and analytical monitoring system of reliability and safety. The analytical monitoring system of reliability and safety of BN-600 reactor is developed and adopted on the base of data retrieval system Istochnik-BN which provides structured storage of information, data systematization and processing, it has extensive data retrieval and exchange system

Для оценки текущего уровня безопасности энергоблока ном. 3 Белоярской АЭС вероятностными методами и поддержки принятия риск-информированных решений в процессе эксплуатации разработана и внедряется система мониторинга надежности, безопасности и риска энергоблока. Основу этой системы составляет система мониторинга риска РИМ, использующая логико-вероятностные модели энергоблока, доработанные для целей мониторинга риска. Система мониторинга риска РИМ взаимосвязана с системой планирования технического обслуживания и ремонта энергоблока ном. 3 Белоярской АЭС и системой аналитического мониторинга надежности и безопасности. Система аналитического мониторинга надежности и безопасности энергоблока с реакторной установкой БН-600 разработана и внедрена на базе информационно-поисковой системы Источник-БН, которая обеспечивает структурированное хранение информации, систематизацию и обработку данных, имеет развитую систему поиска и обмена данными

Analysis of defect tubes of fast reactor heat exchanger

S36

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Thermal physics of fast reactors (Thermal physics-2013)

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Analiz defektnykh trubok teploobmennika reaktora na bystrykh nejtronakh

p. 175-182

(RU)

5 refs., 9 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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IN-VESSEL HEAT EXCHANGERS; TUBES; DEFECTS; AUGER ELECTRON SPECTROSCOPY; MICROANALYSIS; X-RAY DIFFRACTION; SPATIAL DISTRIBUTION; INTERGRANULAR CORROSION; STEEL-CR18NI10; SODIUM; THICKNESS; FAST REACTORS

The experimental Auger electron spectroscopy and X-ray diffraction microanalysis data of laboratory investigations of defect tubes of heat exchanger with sodium coolant are presented. Element distribution through depth of corrosion layers form on the side of coolant (sodium) and on the surface contacting with steam in heat exchanger tube is studied. Sodium presence through all thickness of the tube is determined. It is shown that treatment of 12Cr18N9 steel surface by plasma pulses decreases intergranular corrosion susceptibility. It is related with structural changes of surface layer ($\approx 20 \mu\text{m}$), its enrichment by chromium and formation of chromium oxide protective film

Приводятся экспериментальные данные лабораторных исследований с помощью электронной оже-спектроскопии и рентгеноструктурного микроанализа дефектных трубок теплообменника с натриевым теплоносителем. Изучено распределение элементов по глубине коррозионных слоев со стороны теплоносителя (натрия) и с поверхности, контактирующей с водяным паром в трубке теплообменника. Показано наличие натрия во всей толщине трубки. Показано, что обработка поверхности стали 12X18N9 импульсной плазмой уменьшает склонность к межкристаллитной коррозии. Это связано со структурными изменениями поверхностного слоя ($\approx 20 \text{ мкм}$), его обогащением хромом и образованием защитной пленки из оксида хрома

Assessment of efficiency of various techniques of flow area blocking detection of single fuel assembly for sodium fast reactors

S22

Shchekotov, V.G.; Volkov, A.V.; Shvetsov, Yu.E.; Zagorul'ko, Yu.I.; Zhilkin, A.S. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Teplofizika reaktorov na bystrykh nejtronakh (Teplofizika-2013)

Otsenka ehffektivnosti razlichnykh metodov obnaruzheniya blokirovki prokhodnogo secheniya edinichnoj TVS dlya natrievykh reaktorov na bystrykh nejtronakh

p. 183-194

(RU)

10 refs., 5 figs., 2 tabs.

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Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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REACTOR ACCIDENTS; HYPOTHETICAL ACCIDENTS; FLOW BLOCKAGE; FUEL ASSEMBLIES; REACTOR CONTROL SYSTEMS; FUEL ELEMENTS; MATHEMATICAL MODELS

Mathematical calculations of the hypothetic beyond design basis accident scenario Immediate flow area blocking of single fuel assembly (among all in reactor core) and corresponding experiments which make it possible to assess the lead times. It is pointed out that today the processes which bring out blocking in time less than 1 min can be classified as immediate flow area blocking of fuel assemblies. To detect the fact of such blocking it is necessary to use the amplitude analysis. Slowly evolving processes of fuel assembly blocking can be controlled reliably by all control systems, and accident progression can be prevented according to the signals of failed element detection of location sectoral system. Maintenance of control on reactivity and neutron noises allow to prevent accident progression out of seven fuel assemblies

Проведены математические расчеты процесса протекания гипотетической запроектной аварии Мгновенная блокировка проходного сечения одной (из всех находящихся в активной зоне) ТВС и соответствующие эксперименты, которые позволили оценить времена протекания. Отмечается, что в настоящее время к мгновенной блокировке проходного сечения ТВС можно отнести процессы, вызывающие блокировку за время менее 1 мин. Для обнаружения факта такой блокировки необходимо использовать амплитудный анализ. Медленно развивающиеся процессы блокировки ТВС могут надежно контролироваться всеми системами контроля, и развитие аварийного процесса может быть предотвращено по сигналам секторной системы контроля герметичности оболочек твэлов. Введение контроля по реактивности и по нейтронным шумам позволит предотвратить развитие аварийного процесса за пределы семи ТВС

Investigation of physicochemical processes on the surface of ceramic sensor from partially stabilized zirconium dioxide under change of hydrogen partial pressure in gaseous mixtures

S36

Ivanov, I.I.; Storozhenko, A.N.; Ul'yanov, V.V.; Shelemet'ev, V.M.; Teplyakov, Yu.A.; Fomin, A.S. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Issledovanie fiziko-khimicheskikh protsessov, protekayushchikh na poverkhnosti keramicheskogo chuvstvitel'nogo ehlementa iz chastichno stabilizirovannogo dioksida tsirkoniya pri izmeneniyakh partsial'nogo davleniya vodoroda v gazovykh smesyakh

p. 195-201

(RU)

4 refs., 6 figs., 1 tab.

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COOLANTS; FAST REACTORS; LEAD; LEAD ALLOYS; BISMUTH ALLOYS; PURIFICATION; HYDROGEN; ELECTROMOTIVE FORCE; CONCENTRATION RATIO; PARTIAL PRESSURE; CERAMICS; ZIRCONIUM OXIDES; YTTRIUM ADDITIONS; COMPARATIVE EVALUATIONS; SOLID ELECTROLYTES; ELECTRODES

To control the process of hydrogen refining of lead and lead-bismuth coolants the use of sensors on the base of yttrium-stabilized zirconium dioxide ceramics is proposed. Gas sampling is not necessary for analysis of gaseous phase by solid electrolyte sensors. The dependence of emf on hydrogen partial pressure in argon-hydrogen-water vapor mixture is studied. Theoretical dependence emf on partial hydrogen pressure value is in good agreement with obtained experimentally for three sensors investigated. This dependence is the most close to linear one for sensor with nickel measuring electrode. For hydrogen refining process control the optimal is the sensor with nickel measuring electrode and reference electrode on the base of bismuth and iron-Fe₃O₄ mixture

Для контроля процесса водородной очистки свинцового и свинцово-висмутитового теплоносителей предложено использование датчиков на основе керамики из диоксида циркония, стабилизированного иттрием. Анализ газовой фазы твердоэлектролитными датчиками не требует отбора проб газа. Изучена зависимость ЭДС таких датчиков от парциального давления водорода в смеси аргон-водород-водяной пар. Теоретическая зависимость ЭДС датчика от величины парциального давления водорода хорошо согласуется с практической в случае всех трех исследованных датчиков. Эта зависимость наиболее близка к линейной для датчика с никелевым измерительным электродом. Для контроля процесса водородной очистки оптимальным представляется датчик с никелевым измерительным электродом и электродом сравнения на основе висмута и смеси железо - Fe₃O₄

Investigation of characteristics of highly charged facility for cooling and temperature control of HLHC flow at atmospheric pressure

S42

Livanova, T.A.; Novozhilova, O.O.; Beznosov, A.V.; Bokov, P.A. (Nizhegorodskij Gosudarstvennyj Tekhnicheskij Univ. im. R.E. Alekseeva, Kafedra Atomnye, Teplovyje Stantsii i Meditsinskaya Inzheneriya, Nizhnij Novgorod (RU))

Thermal physics of fast reactors (Thermal physics-2013)

Obninsk (RU)

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Issledovanie kharakteristik vysokonapryazhennogo ustrojstva okhlazhdeniya i regulirovaniya

temperatury potoka TZhMT pri atmosfernom davlenii

p. 201-205

(RU)

2 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

COOLANTS; LIQUID METALS; LEAD ALLOYS; BISMUTH ALLOYS; HEAT EXCHANGERS; AIR; PRESSURE RANGE KILO PA; WATER; LABORATORY EQUIPMENT; HEAT TRANSFER; EFFICIENCY

One of the problems appeared when developing investigation and industrial benches and nuclear power facilities with heavy liquid metal coolant (HLMC) is heat removal. For heat removal from circuits and systems with HLMC effective heat exchanger with water-air mixture operating at pressure near atmospheric one is suggested. Design of cooling facility for HLMC melt which permits to regulate effectively heat transfer and exclude HLMC solidification at any operations of cooling facility is considered

Одной из проблем, возникающих при создании исследовательских и промышленных стан­дов и ядерных энергетических установок с тяжелым жидкометаллическим теплоносителем (ТЖМТ), является отвод тепла от теплоносителя. Для отвода тепла от контуров и систем с ТЖМТ предлагается эффективный теплообменник с водо-воздушной смесью, работающей при давлении, близком к атмосферному. Рассмотрена конструкция охладителя расплава ТЖМТ, которая позволяет эффективно регулировать теплообмен, и исключает замерзание ТЖМТ при всех возможных режимах работы охладителя

Experimental and calculation-theoretical justifications of design of hydrostatic bearings of MCP in reactor facility with HLMC

S42

Antononkov, M.A.; Beznosov, A.V.; Bokov, P.A.; L'vov, A.V. (Nizhegorodskij Gosudarstvennyj Tekhnicheskij Univ. im. R.E. Alekseeva, Nizhnij Novgorod (RU))

Thermal physics of fast reactors (Thermal physics-2013)

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Teplofizika reaktorov na bystrykh nejtronakh (Teplofizika-2013)

Ehksperimental'nye i raschetno-teoreticheskie obosnovaniya konstruksij gidrostaticheskikh podshipnikov GTsN v RU s TZhMT

p. 206-213

(RU)

2 refs., 5 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

HYDROSTATIC BEARINGS; REACTOR COOLING SYSTEMS; PUMPS; FAST REACTORS; OPERATION; COMPARATIVE EVALUATIONS; LEAD; WATER; COOLANTS; OPTIMIZATION

Experimental and calculation and theoretical justification of normal operation of hydrostatic bearings (HSB) is conducted. The consideration is given to the procedures of calculation and recommendations on developing optimal designs of plain bearings in main circulation pumps working with high-temperature lead melt coolant for reactor circuit conditions. It is shown that chosen variants of HSB design after hydrothermal and tribotechnical investigations provide necessary characteristics of HSB on high-temperature lead melt

Проведено экспериментальное и расчетно-теоретическое обоснование работоспособности конструкций гидростатических подшипников (ГСП). Рассмотрены методики расчета и рекомендации по созданию оптимальных конструкций подшипников скольжения главных циркуляционных насосов, перекачивающих высокотемпературный расплав свинцового теплоносителя для условий реакторного контура. Показано, что выбранные варианты конструкции ГСП после гидродинамических и триботехнических исследований обеспечивают необходимые характеристики ГСП на высокотемпературном расплаве свинца

Acoustic system of small leak indication of large-modulus sodium-water steam generator of reactor installation BN-1200

S22

Dvornikov, P.A.; Kovtun, S.N.; Luk'yanov, D.A. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)) (and others)

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Akusticheskaya sistema indikatsii maloj techi krupnomodul'nogo parogeneratora natrij-voda RU BN-1200

p. 214-224

(RU)

7 refs., 6 figs., 2 tabs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013). Сборник докладов на конференции Теплофизика-2013

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604 p.

STEAM GENERATORS; REACTOR COOLING SYSTEMS; COOLANTS; SODIUM; BENCH-SCALE EXPERIMENTS; ACOUSTIC MONITORING; LEAKS

The testing results of the mockup of acoustic system for leak indication on improved mockup of small leaks simulation are under consideration. The mockup consists of two types of measuring channels: two low-frequency channels (on the base of vibration inverters AP34) and two high-frequency ones (on the base of high-frequency sensors of acoustic emission GT350). The use of pattern recognition techniques for analysis of acoustic noises of steam generator leak is considered. It is pointed out that occurrence of the leak effect considerably on the form of acoustic spectra and that when leak flow increases acoustic spectra power grows. The results of experiments show the possibility of construction of acoustic system which is able to register the leak from 0.1 g/s and more with delay time for detection and leak characteristics measuring not more than 1 s

Обсуждаются результаты испытаний макета акустической системы индикации течи на модернизированном макете имитации малых течей. Макет состоит из двух видов измерительных каналов: двух низкочастотных (на основе вибропреобразователей AP34) и двух высокочастотных (на основе высокочастотных датчиков акустической эмиссии GT350). Рассмотрено применение методов теории распознавания образов для анализа акустических шумов течи парогенератора. Отмечается, что при возникновении течи значительно меняется форма акустического спектра, и что при увеличении расхода течи мощность акустического спектра возрастает. Результаты экспериментов показывают возможность построения акустической системы, способной регистрировать течь от 0,1 г/с и выше с временем запаздывания на обнаружение и измерения характеристик течи не более 1 с

Acoustic control of sodium leakage in valve gates of NPP

S21

Trykov, E.L.; Kovtun, S.N.; Anan'ev, A.A.; Yugov, S.I. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Контроль протечек натрия в затворе трубопроводной арматуры АЕhS акустическим методом
p. 225-229

(RU)

2 refs., 4 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

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604 p.

FAST REACTORS; REACTOR COOLING SYSTEMS; VALVES; SODIUM; ACOUSTIC MONITORING; REACTOR MONITORING SYSTEMS; BENCH-SCALE EXPERIMENTS; LEAK TESTING

Short description of sodium bench and acoustic investigation results on leakage monitoring of valves DN10 and DN40 are given. It is shown that acoustic method can be used successfully to control the leakages of sodium valves. Leakages on both type of valves increase the acoustic signal dispersion by 2-3 orders. For each type of valve acoustic system of leakage determination allows to conduct the preliminary graduation of signal dispersion on the sodium discharge rate. It make possible not only to record the leakage presence but also to determine the sodium discharge rate through the valve during the leakage

Приведены краткое описание натриевого стенда и результаты исследований по контролю герметичности арматуры DN10 и DN40 акустическим методом. Показано, что акустический метод может быть успешно использован для контроля протечек натриевой арматуры. Протечки на обоих типах арматур увеличивают дисперсию акустического сигнала на 2-3 порядка. Для каждого типа арматуры акустическая система определения протечек позволяет провести предварительную градуировку дисперсии сигнала от расхода натрия. Это позволяет не только фиксировать наличие протечки, но и определять расход натрия через задвижку арматуры во время протечки

The results of activity and program of decommissioning works of research reactor BR-10

S22

Kochetkov, L.A.; Zhurin, A.V.; Smykov, V.B.; Butov, K.A. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Itogi deyatel'nosti i programma rabot po vyvodu iz ehkspluatatsii issledovatel'skogo reaktora BR-10

p. 230-237

(RU)

4 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

RESEARCH REACTORS; COOLANTS; SODIUM; RADIOACTIVE WASTES; REACTOR DECOMMISSIONING; REACTOR SHUTDOWN; RADIOACTIVE WASTE PROCESSING; REACTOR DISMANTLING

Consideration is given to the package of measures done on the preparation step of research reactor BR-10 decommissioning as well as to the measures of two steps of decommissioning of the reactor after securing. It is pointed out that on the first step the largest problem is conditioning of radioactive wastes of alkaline metal coolant because of its extraordinary fire and explosive hazards in random contact with moisture-containing media. Two advanced techniques of cold traps decontamination are discussed: water-vacuum treatment and neutralization of sodium residue in traps by gaseous nitrous oxide. The second step of research reactor BR-10 decommissioning (reactor dismantling) is planned to be in 35-50 years

Рассмотрен комплекс мероприятий, выполненный на подготовительном этапе к выводу из эксплуатации исследовательского реактора БР-10, а также мероприятия двух этапов по выводу этого реактора из эксплуатации после приведения его в ядерно-безопасное состояние. Отмечается, что на первом этапе наибольшей проблемой будет кондиционирование радиоактивных отходов щелочного теплоносителя из-за его исключительной пожарной и взрывоопасности при случайном контакте с влагосодержащей средой. Обсуждаются два наиболее перспективных способа обезвреживания холодных ловушек окислов натрия: метод водно-вакуумной обработки и метод нейтрализации остатков натрия в ловушках с помощью газообразной закиси азота. Второй этап вывода из эксплуатации исследовательского реактора БР-10 (демонтаж установки) планируется проводить через 35-50 лет

The results of experimental investigations on tube vibration of model BN-1200 steam generator

S42

Makarov, V.V.; Afanas'ev, A.V.; Ivanov, D.A.; Puchkov, M.V.; Nosenko, A.P. (OKB GIDROPRESS, Podol'sk (RU))

Thermal physics of fast reactors (Thermal physics-2013)

Obninsk (RU)

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Rezultaty eksperimental'nykh issledovaniy vibratsii trub modeli PG BN-1200

p. 238-247

(RU)

7 figs., 1 tab.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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HEAT EXCHANGERS; BENCH-SCALE EXPERIMENTS; MECHANICAL VIBRATIONS;
HYDRAULICS; SPACERS; FLOW RATE; HZ RANGE; DAMPING; DIMENSIONS

Self and forced vibrations of 61-tube model of BN-1200 steam generator are studied as well as the effect of the design and operational factors on vibrational response of heat-exchanging tubes (HET). It is stated that vibrations on the frequencies near to self ones give the main contribution into total vibration level of HET in the coolant flow. The maximal of vibration level of HET is determined in the area of coolant input into the model. In the area of longitudinal flow and in the area of coolant output the level of vibrational accelerations of HET is less by several times. It is pointed out that with flow rate increase vibration level of different HET in the input area grows according to the law from linear to quadratic

Исследованы собственные и вынужденные колебания 61-трубной модели парогенератора БН-1200 и влияние конструкционных и эксплуатационных факторов на вибрационный отклик теплообменных труб (ТОТ). Установлено, что основной вклад в общий уровень вибрации ТОТ в потоке теплоносителя дают колебания на частотах, близких к собственным. Наибольший уровень вибрации ТОТ отмечен на участке входа теплоносителя в модель. В зоне продольного обтекания и на участке выхода теплоносителя уровень виброускорений ТОТ в несколько раз ниже. Отмечается, что с увеличением расхода уровень вибрации различных ТОТ на входном участке растет по закону от линейного до квадратичного

Problems and particularities of heat transfer and temperature fields of fuel elements of heavy coolant reactors

S42

Zhukov, A.V.; Kuzina, Yu.A.; Sorokin, A.P.; Privezentsev, V.V.; Rymkevich, K.S.; Burkova, I.V. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Problemy i osobennosti teploobmena i temperaturnykh polej tvehlov reaktorov s tyazhelym teponositelem

p. 248-261

(RU)

9 refs., 9 figs., 3 tabs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

FAST REACTORS; BENCH-SCALE EXPERIMENTS; HEAT TRANSFER; FUEL ELEMENTS; FUEL ASSEMBLIES; REACTOR LATTICES; FINS; LEAD; COOLANTS; TEMPERATURE MEASUREMENT; TEMPERATURE DISTRIBUTION; THERMAL HYDRAULICS; SIMULATION

Consideration is given to heat transfer, total temperature rise and temperature rises under fins of measuring simulators of fuel elements in simulated assembly with $s/d = 1.33$. Recommendations are given for calculations of temperature rises under fins, of total temperature irregularities of central, side and corner fuel element simulators. Formulas for heat transfer coefficients of fuel element simulators and for maximal radial temperature irregularities of coolant (lead) are presented. It is pointed out that the effect of decrease of the heat transfer coefficients of finned fuel elements becomes indistiguated in general at small fuel pin pitches ($s/d < 1.15$) when spacer fins are small and practically do not effect on temperature rise under fins

Рассмотрены теплоотдача, общие подъемы температуры и подъемы температуры под дистанционирующими ребрами измерительных имитаторов твэлов в модельной сборке с $s/d = 1,33$. Даны рекомендации для расчетов подъемов температуры под ребрами, общих неравномерностей температуры центрального, бокового, углового имитаторов твэла. Приведены формулы для коэффициентов теплоотдачи имитаторов твэлов, а также максимальных неравномерностей температуры теплоносителя (свинец) по радиусу модельной сборки. Отмечается, что эффект падения коэффициентов теплоотдачи оребренных твэлов вообще оказывается незаметным при малых относительных шагах твэлов ($s/d < 1,15$), когда дистанционирующие ребра на твэлах малы и практически не вызывают влияния на подъемы температуры под ребрами

Vibrations of rod and pipe bundles in reactor installation with HLMC

S42

Fedotovskij, V.S.; Orlov, A.I.; Lunina, S.V.; Pil'shchikova, E.A. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Kolebaniya puchkov sterzhnej i trub v RU s TZhMT

p. 261-270

(RU)

3 refs., 4 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

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604 p.

DISPERSIONS; MECHANICAL VIBRATIONS; VISCOSITY; HYDRODYNAMICS;
MATHEMATICAL MODELS; FUEL ASSEMBLIES; FUEL ELEMENT CLUSTERS;
DEGREES OF FREEDOM

Different type of heterogeneous media and their effective dynamic properties determining vibrational dynamics of heterogeneous structures are under consideration. To illustrate the continual approach with the use of the concept of effective dynamic density of heterogeneous systems to solution of the vibrational problems vibrations of container with mass M which is filled by liquid with inclusions-oscillators and fixed on the spring with stiffness K is discussed. For example, the problem of flexural beam-type vibrations of jacket fuel assemblies with fuel element clusters is reduced to such system. It is shown that vibrating system-of-interest has two natural frequencies because, practically, it is the inertially connected system with two degrees of freedom, one of which is referred to container, and the second one to the assembly of inclusions-oscillators, and both have natural frequency

Рассматриваются различные типы гетерогенных сред и их эффективные динамические свойства, определяющие вибрационную динамику гетерогенных конструкций. Для иллюстрации континуального подхода с использованием понятия эффективной динамической плотности гетерогенных систем к решению вибрационных задач рассмотрены колебания контейнера массой M , заполненного жидкостью с включениями-осцилляторами и закрепленного на пружине жесткости K . К такой системе сводится, например, задача об изгибных балочных колебаниях чехловых тепловыделяющих сборок с пучком твэлов. Показано, что рассматриваемая колебательная система имеет две собственные частоты, так как она представляет собой, в сущности, инерционно связанную систему с двумя степенями свободы, одна из которых относится к контейнеру, а другая к ансамблю включений-осцилляторов, и каждая из которых имеет собственную частоту

About axisymmetry of coolant flow field in reactor core - HLMC bench with axially symmetric cylindrical distributing collector system

S42

Golub, E.V. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

Thermal physics of fast reactors (Thermal physics-2013)

Obninsk (RU)

30 Oct - 1 Nov 2013

Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Ob osevoj simmetrii polya raskhoda teplonositelya v aktivnoj zone reaktora - stenda s TZhMT s osesimmetrichnoj tsilindricheskoj razdayushchej kollektornoj sistemoj

p. 271-285

(RU)

14 refs., 8 figs., 1 tab.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

Thermal physics of fast reactors (Thermal physics-2013). Book of reports at the Conference

Thermal physics-2013

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604 p.

REACTOR CORES; FLOW RATE; REACTOR CHANNELS; THERMAL HYDRAULICS; TEMPERATURE DISTRIBUTION; MATHEMATICAL MODELS; COMPUTER CODES; ACCURACY; ANISOTROPY; BENCHMARKS; VERIFICATION; FLUID FLOW

It is analyzed the legitimacy of simulation of the part of flow rate conditioned by reactor collector system by parabola of rotation with generator - regression curve for massive of standard channels removed not less than two units from reactor control and safety system channels and nonstandard periphery channels. It is shown that distribution of the part of flow rate in reactor core (RC) conditioned by reactor collector system can be simulated by the method under consideration. It is pointed out that the results obtained may be useful for preparing benchmark for verification of codes of RC thermohydraulic calculations and for further development of the model of RC thermohydraulic calculation with regard to thermal deformation of RC elements

Анализируется правомерность моделирования части расхода, обусловленной коллекторной системой реактора, параболой вращения с образующей - регрессионной кривой для массива стандартных каналов, удаленных не менее чем на две ячейки от каналов системы управления и защиты и нестандартных каналов периферии. Показано, что распределение части расхода в активной зоне (АЗ), обусловленной коллекторной системой реактора, можно моделировать рассмотренным методом. Отмечается, что полученные результаты могут быть полезны для подготовки бенчмарка верификации кодов теплогидравлических расчетов АЗ и для дальнейшего развития модели теплогидравлического расчета АЗ с учетом термодформаций элементов АЗ

Experimental investigations of characteristics of the model of reactor installation BREST-OD-300 axial MCP flow path at the bench FT-4 NGTU

S42

L'vov, A.V.; Antonenkov, M.A.; Beznosov, A.V.; Bokov, P.A.; Zudin, A.D. (Nizhegorodskij Gosudarstvennyj Tekhnicheskij Univ. im. R.E. Alekseeva, Nizhnij Novgorod (RU)); Shchutskij, S.Yu.; Dyagilev, P.Yu. (OAO Tsentral'noe Konstruktorskoe Byuro Mashinostroeniya, Sankt-Peterburg (RU))

Thermal physics of fast reactors (Thermal physics-2013)

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Ehksperimental'nye issledovaniya kharakteristik modeli protochnoj chasti osevogo GTsN RU BREST-OD-300 na stende FT-4 NGTU

p. 286-297

(RU)

6 refs., 9 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

FAST REACTORS; LIQUID METAL COOLED REACTORS; PUMPS; REACTOR COOLING SYSTEMS; BENCH-SCALE EXPERIMENTS; FUNCTIONAL MODELS; FLUID FLOW

Experimental and calculational-and-theoretical investigations supporting design data of elements of circulation pumps with heavy liquid metal coolants have been conducted. The experimental bench for design development of reactor installation (RI) BREST main circulation pump (MCP) and for cavitation, life and energy efficiency tests have been produced. Models of two flow paths of RI BREST MCP have been tested. It is pointed out that erosion wear of axial flow wheel in caused mode at circumference speed 20 m/s is absent. It is shown that efficiency factor of the pump do no agree with expectation values, that is a revision of previously selected parameters of RI BREST MCP drive

Проведены экспериментальные и расчетно-теоретические исследования, обосновывающие проектные данные элементов циркуляционных насосов с тяжелыми жидкометаллическими теплоносителями. Разработан экспериментальный стенд для отработки конструкции модели главного циркуляционного насоса (ГЦН) реакторной установки (РУ) БРЕСТ и проведения кавитационных, ресурсных и энергетических испытаний. Испытаны модели двух проточных частей ГЦН РУ БРЕСТ. Отмечается отсутствие эрозионного износа осевого рабочего колеса в провоцирующем режиме при окружной скорости 20 м/с. Показано, что КПД насоса не соответствует ожидаемым значениям, что означает пересмотр ранее выбранных параметров привода ГЦН РУ БРЕСТ

Results of BREST steam generator model tests under conditions of partial and start-up modes

S22

Grabezhnaya, V.A.; Mikheev, A.S.; Shtejn, Yu.Yu.; Kryukov, A.E. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

Thermal physics of fast reactors (Thermal physics-2013)

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Teplofizika reaktorov na bystrykh nejtronakh (Teplofizika-2013)

Rezultaty ispytanij modeli parogeneratora BREST v usloviyakh chastichnykh i puskovykh rezhimov

p. 298-306

(RU)

3 refs., 10 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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2014

604 p.

STEAM GENERATORS; HEAT TRANSFER; THERMAL HYDRAULICS; BENCH-SCALE EXPERIMENTS; COMPUTER CODES; VERIFICATION; FLUID FLOW; LIQUID METAL COOLED REACTORS

Test results of single three tube module at parameters of partial and start-up modes are presented, and combined operation of two modules at start-up modes is considered. The investigations have been directed on studying thermal transfer and, in a greater degree, thermohydraulic stability of steaming tubes at parameters of partial and start-up modes. Data obtained in testing process of the steam generator model will be conservative for new variant of RU BREST-OD-300 steam generator with regard to heat transfer in post-critical area, thermodynamic nonequilibrium of steam-water flow. It is pointed out that obtained experimental data should be used for calculating codes verification

Представлены результаты испытаний одиночного трехтрубного модуля при параметрах частичных и пусковых режимов, а также рассмотрена совместная работа двух модулей при пусковых режимах. Исследования были направлены на изучение теплообмена и, в большей степени, теплогидравлической устойчивости парогенерирующих труб при параметрах частичных и пусковых режимов. Данные, которые получены в процессе испытаний на этой модели парогенератора, будут являться консервативными для нового варианта парогенератора РУ БРЕСТ-ОД-300 в части теплообмена в закризисной зоне, термодинамической неравновесности пароводяного потока. Отмечается, что полученные экспериментальные данные следует использовать для верификации расчетных кодов

Experimental investigation of heat transfer at lead cross flow of steam generating tubes bundle

S22

Parfenov, A.S.; Mikheev, A.S.; Grabezhnaya, V.A.; Shcherbakov, S.I. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

Thermal physics of fast reactors (Thermal physics-2013)

Obninsk (RU)

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Teplofizika reaktorov na bystrykh nejtronakh (Teplofizika-2013)

Ehksperimental'noe issledovanie teploobmena pri poperechnom obtekanii svintsom puchka parogeneriruyushchikh trub

p. 307-312

(RU)

5 refs., 3 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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2014

604 p.

STEAM GENERATORS; COOLANTS; LEAD; HEAT TRANSFER; SIMULATORS; TUBES;
BENCH-SCALE EXPERIMENTS; DATA PROCESSING

Heat transfer at lead cross flow of steam generating tubes bundle on new experimental model with design characteristics of new steam generator of reactor installation BREST-OD-300 have been investigated. Experiments on investigation of heat transfer from lead side at cross flow of steam generating bundle have been conducted on the bench in SSC RF - IPPE. The bench provides the structural similarity of simulated elements of the installation. The techniques of the experiments and data processing have been discussed

Исследован теплообмен при поперечном обтекании пучка теплообменных труб свинцом на новой экспериментальной модели, в которой заложены проектные характеристики нового парогенератора реакторной установки БРЕСТ-ОД-300. Эксперименты по исследованию теплообмена со стороны свинца при поперечном обтекании пучка теплообменных труб проводились на стенде в ГНЦ РФ - ФЭИ. Состав стенда обеспечивает структурное подобие моделируемых элементов установки. Рассмотрены методики проведения опытов и обработки данных

Peculiarities of reactor facility with HLMC of low and medium power with horizontal steam generators localizing the breakdown of interloop seal of the steam generator accident at any breakdown size

S22

Larionov, D.A.; Beznosov, A.V.; Novozhilova, O.O.; Livanova, T.A. (Nizhegorodskij Gosudarstvennyj Tekhnicheskij Univ. im. R.E. Alekseeva, Nizhnij Novgorod (RU))

Thermal physics of fast reactors (Thermal physics-2013)

Obninsk (RU)

30 Oct - 1 Nov 2013

Teplofizika reaktorov na bystrykh nejtronakh (Teplofizika-2013)

Osobennosti RU s TZhMT maloj i srednej moshchnosti s gorizonta'nymi parogeneratorami, lokalizuyushchej avariyu #Left-Pointing Double Angle Quotation Mark#mezhkonturnaya neplo'tnost' PG#Right-Pointing Double Angle Quotation Mark# pri lyubom razmere neplo'tnosti p. 313-317

(RU)

4 refs., 1 fig.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

FAST REACTORS; COOLANTS; LIQUID METALS; STEAM GENERATORS;
ACCIDENTS; FLUID MECHANICS; SAFETY; EFFICIENCY

The development of advanced nuclear facility with heavy liquid metal coolant ensuring safer operation due to application of horizontal steam generator in the facility is discussed. Such arrangement of reactor circuit allows to decrease the pressure drop, to increase the per cent of natural circulation in the circuit, to increase safety of reactor facility at emergency destruction of steam generator tube system elements, to provide simple detection and damping of the steam generator emergency tubes, to provide compactness and to minimize mass-size parameters of reactor facility

Обсуждается разработка перспективной реакторной установки с тяжелым жидкометаллическим теплоносителем, обеспечивающей более безопасную эксплуатацию благодаря применению в реакторной установке горизонтального парогенератора. Такая компоновка реакторного контура позволяет уменьшить его гидравлическое сопротивление, увеличить процент естественной циркуляции в контуре, повысить безопасность реакторной установки при аварийном разрушении элементов трубной системы парогенератора, обеспечить достаточно простое обнаружение и глушение аварийных трубок парогенератора, обеспечить компактность и минимизировать массогабаритные характеристики реакторной установки

Experimental investigation of cavitation in lead coolant with regard to main circulators of reactor facilities with HLMC

S42

Bokov, P.A.; L'vov, A.V.; Beznosov, A.V.; Bokova, T.A. (Nizhegorodskij Gosudarstvennyj Tekhnicheskij Univ. im. R.E. Alekseeva, Nizhnij Novgorod (RU)); Shchutskij, S.Yu.; Dyagilev, P.Yu. (OAO Tsentral'noe Konstruktorskoe Byuro Mashinostroeniya, Sankt-Peterburg (RU))

Thermal physics of fast reactors (Thermal physics-2013)

Obninsk (RU)

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Ehksperimental'noe issledovanie kavitatsii v svintsovom teplonositele primenitel'no k glavnym tsirkulyatsionnym nasosam reaktornykh ustanovok s TZhMT

p. 318-329

(RU)

14 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

REACTOR COOLING SYSTEMS; PUMPS; LIQUID METALS; CIRCULATING SYSTEMS; BENCH-SCALE EXPERIMENTS; CAVITATION; FLUID FLOW

On the circulation benches with high-temperature lead coolant with centrifugal, axial pumps and ejector, in conditions of reactor circuits, previously unknown property of lead coolant - gas cavitation have been substantiated. Its characteristics have been investigated by independent methods. The tests conducted allow to calculate reasonably the flow path of pumps with heavy liquid metal coolants and to develop design and operating documentation of main circulators of circuits with fast reactors cooled by lead and lead-bismuth coolants

На циркуляционных стендах с высокотемпературным свинцовым теплоносителем с центробежными, осевыми насосами и с эжектором, в условиях реакторных контуров, экспериментально обосновано неизвестное ранее свойство свинцового теплоносителя - газовая кавитация. Исследованы ее характеристики независимыми способами. Проведенные испытания позволяют обоснованно рассчитывать проточную часть насосов с тяжелыми жидкометаллическими теплоносителями и разрабатывать проектную и эксплуатационную документацию главных циркуляционных насосов контуров с реакторными установками на быстрых нейтронах, охлаждаемых свинцовым и свинец-висмутовым теплоносителями

Experimental investigations of heat transfer characteristics at lead coolant cross flow of tubes

S42

Yarmonov, M.V.; Zudin, A.D.; Chernysh, A.S.; Novozhilova, O.O.; Beznosov, A.V.
(Nizhegorodskij Gosudarstvennyj Tekhnicheskij Univ. im. R.E. Alekseeva, Nizhnij Novgorod (RU))

Thermal physics of fast reactors (Thermal physics-2013)

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Eksperimental'nye issledovaniya kharakteristik teploobmena pri poperechnom obtekanii trubok svintsovim teplonositelem

p. 330-339

(RU)

7 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

STEAM GENERATORS; FAST REACTORS; COOLANTS; LIQUID METALS; LEAD;
HEAT TRANSFER; FLUID FLOW; REACTOR COOLING SYSTEMS; IMPURITIES;
NUSSOLT NUMBER; CONCENTRATION RATIO

Integrated experimental investigations of heat transfer characteristics and particularities of tube flow around by heavy liquid metal coolant have been conducted. The dependences $Nu = f(Re)$ at controlled and regulated content of thermodynamically active oxygen of $10^{-4} - 10^0$ have been obtained. The fields of temperatures and rates in in-line tube bank have been determined. The effect of input of vapour at steam generator leakage or of gas at its capture by lead flow on heat transfer characteristics have been studied relating to RU BREST-300 steam generator conditions. It is shown that decrease of coolant oxidizing potential improves heat transfer characteristics from lead to wall in conditions studied. The influence of thermogravitational effect on profile rate in gap between heat-exchanger tubes have been found out

Проведены комплексные экспериментальные исследования характеристик теплообмена и особенностей обтекания труб тяжелым жидкометаллическим теплоносителем. Получены зависимости $Nu = f(Re)$ при контролируемом и регулируемом содержании примеси термодинамически активного кислорода $10^{-4} - 10^0$. Определены поля температур и скоростей в коридорных пучках труб. Изучено влияние поступления пара при течи парогенератора или газа при его захвате потоком свинца на характеристики теплообмена, применительно к условиям парогенератора РУ БРЕСТ-300. Показано, что уменьшение окислительного потенциала теплоносителя улучшает характеристики теплообмена от свинца к стенке в изученных условиях. Обнаружено влияние термогравитационного эффекта на профили скорости в зазоре между теплообменными трубками

Experimental investigations of wall layer in HLHC flow and model: absorber rod cladding - jacket with regard to conditions of reactor facility with HLHC S21

Makhov, K.A.; Bokova, A.V.; Beznosov, A.V.; Shumilkov, A.I.; Skoblikov, E.O. (Nizhegorodskij Gosudarstvennyj Tekhnicheskij Univ. im. R.E. Alekseeva, Nizhnij Novgorod (RU)); Drozdov, Yu.N. (IMASH RAN, Moscow (RU))

Thermal physics of fast reactors (Thermal physics-2013)

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Экспериментальные исследования пристенного слоя в потоке ТЗМТ и модели: оболочка стержня-поглотителя - чехол применительно к условиям РУ с ТЗМТ

p. 340-349

(RU)

12 figs., 1 tab.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

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604 p.

FAST REACTORS; COOLANTS; LIQUID METALS; FRICTION; WEAR; SURFACES; DEPOSITS; HYDRAULICS; ROUGHNESS; FLOW RATE; THERMODYNAMIC

ACTIVITY; IMPURITIES; REGULATING RODS; NEUTRON ABSORBERS; JACKETS; TRIBOLOGY

Description is given to experimental bench for studying friction and wear of contact pairs of the system absorber rod - jacket and for determining hydraulic characteristics of channel depending on various states of wall area (deposit thickness on the surfaces, surface roughness, presence or absence of oxide coating) and operating parameters of circuit (coolant flow rate, temperature, thermodynamic activity of oxygen in lead melt). Target of research is the system absorber rod - jacket at longitudinal movement of rod about jacket. The investigations of tribological problems in circuits of innovation fast reactors cooled by lead and lead-bismuth coolants and analysis of their results permit to develop reasonable recommendations to design solutions of mechanisms and equipment, circuits containing contact pairs in high-temperature liquid metal coolants

Описан экспериментальный стенд для изучения трения и износа контактных пар системы стержень поглощающего элемента - чехол и определения гидравлических характеристик канала в зависимости от различных состояний пристенной области (толщина отложений на поверхностях, шероховатость поверхностей, наличие или отсутствие оксидного покрытия) и режимных параметров контура (расход теплоносителя, температура, термодинамическая активность кислорода в расплаве свинца). Объектом исследования является система стержень поглощающего элемента - чехол при продольном перемещении стержня относительно чехла. Исследования проблем трибологии в контурах инновационных реакторов на быстрых нейтронах, охлаждаемых свинцовым и свинцово-висмутовым теплоносителями, и анализ их результатов позволит разрабатывать обоснованные рекомендации к конструктивным решениям механизмов и оборудования, контуров, содержащих контактные пары в среде высокотемпературных жидкометаллических теплоносителей

Experimental investigations of tribotechnical characteristics of structural steels in HLMC media

S21

Shumilkov, A.I.; Bokova, T.A.; Beznosov, A.V.; Makhov, K.A.; Chernysh, A.S. (Nizhegorodskij Gosudarstvennyj Tekhnicheskij Univ. im. R.E. Alekseeva, Nizhnij Novgorod (RU))

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Ehksperimental'nye issledovaniya tribotekhnicheskikh kharakteristik konstruksionnykh stalej v srede TZhMT

p. 349-355

(RU)

1 ref., 8 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

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FAST REACTORS; LIQUID METALS; COOLANTS; REACTOR COMPONENTS;
TRIBOLOGY; SURFACES; FRICTION; STEEL-CR18NI10TI; OXIDES; LEAD ALLOYS;
BISMUTH ALLOYS

Tribotechnical characteristics of structural steel samples in heavy liquid metal media of reactor facilities have been determined on experimental bench TR-2012NGTU. Dependences of friction coefficients on applied load of contact pair from oxidized and nonoxidized 12Cr18Ni10Ti steel samples have been obtained. It is found out that contacts pair without oxide coatings on their surfaces have the largest friction coefficients (0.32-0.48) and the largest changes of surface state, and contact pairs with oxidized coatings formed on their surface have the smallest friction coefficients (0.08-0.2) and the smallest changes on the surface

Определены триботехнические характеристики образцов конструкционных сталей в среде тяжелых жидких металлов реакторных установок на экспериментальном стенде ТР-2012НГТУ. Получены зависимости коэффициента трения от приложенной нагрузки контактной пары из оксидированных и неоксидированных образцов из стали 12Х18Н10Т. Обнаружено, что контактные пары без сформированных на их поверхностях оксидных покрытий имеют наибольшие коэффициенты трения (0,32-0,48) и наибольшее изменение состояния поверхностей, а контактные пары со сформированными на их поверхностях оксидными покрытиями - наименьшие коэффициенты трения (0,08-0,2) и наименьшее изменение состояния поверхностей

Diffusion coefficient of metal vapours into rare gases. Mercury - argon

S37

Meshkov, V.V. (Khimfak MGU, Moscow (RU)); Popov, V.N.; Fokin, L.R. (OIVT RAN, Moscow (RU))

Thermal physics of fast reactors (Thermal physics-2013)

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Koeffitsient diffuzii parov metallov v inertnye gazy. Rtut' - argon

p. 356-358

(RU)

5 refs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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ARGON; MERCURY; VAPORS; DIFFUSION; FAST REACTORS; COOLANTS;
ENVIRONMENTAL PROTECTION; CHEMICAL ANALYSIS; CALIBRATION

The source information is present as well as the results of analysis and integration of data on mutual diffusion coefficient (MDC) of mercury - argon mixture at Hg concentration $\# \rightarrow \# 0$ in 300-2500 K temperature range. Reference data on MDC for metal - inert gas binary mixtures obtained on the base of complex analysis of various information, as it exemplified by Hg-Ar pair, can be used as a part of metrological support at calibration of devices for determination MDC of gas - metal vapors

Представлена исходная информация, а также результаты анализа и обобщения данных о коэффициенте взаимной диффузии (КВД) смеси ртуть - аргон при концентрации Hg $\# \rightarrow \# 0$ в интервале температур 300-2500 К. Справочные данные о КВД для бинарных смесей металл - инертные газы, полученные на основе комплексного анализа разнородной информации, как это показано на примере пары Hg-Ar, могут быть использованы в качестве элемента метрологического обеспечения при тарировке установок по определению КВД газ - пары металлов

Coordination-cluster model for calculating structural material components solubility in lithium coolant in the presence of nitrogen admixture

S37

Krasin, V.P.; Soyustova, S.I. (FGBOU VPO MGIU, Moscow (RU))

Thermal physics of fast reactors (Thermal physics-2013)

Obninsk (RU)

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Koordinatsionno-klasternaya model' dlya rascheta rastvorimosti komponentov konstruktsionnogo materiala v litievom teplonositele v prisutstvii primesi azota p. 359-361

(RU)

4 refs., 1 fig.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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STAINLESS STEELS; COOLANTS; LITHIUM; LIQUID METALS; TEMPERATURE RANGE 0400-1000 K; TEMPERATURE DEPENDENCE; SOLUBILITY; CHEMICAL REACTIONS; MATHEMATICAL MODELS

Temperature dependences of iron solubility in lithium for different nitrogen content in alkali metal in temperature range of practical interest (100-1000 K) have been obtained. The coordination-cluster model of solutions have been used for calculations. It is pointed out that in

temperature range more than threshold one the character of temperature dependence of iron solubility is determined by interaction between iron and nitrogen atoms in liquid phase, the evidence of which is that the form of the dependence on reciprocal temperature is near to linear. But at temperature low threshold one the process of iron dissolution in lithium is governed by the level of equilibrium nitrogen content necessary to formation of ternary nitride Li_3FeN_2 at given temperature

Получены температурные зависимости растворимости железа в литии для разных концентраций азота в щелочном металле в температурном диапазоне, представляющем практический интерес (100-1000 К). Для расчетов использовалась координационно-кластерная модель растворов. Отмечается, что в диапазоне температур выше пороговой характер температурной зависимости растворимости железа определяется взаимодействием между атомами железа и азота в жидкой фазе, о чем свидетельствует близкая к линейной зависимость от обратной температуры. Однако при температурах ниже пороговой процесс растворения железа в литии управляется уровнем равновесной концентрации азота, необходимым для образования тройного нитрида Li_3FeN_2 при данной температуре

Steel surface protection in narrow gap with Pb-Mg eutectic melt

S36

Orlova, E.A.; Kryuchkov, E.A.; Komysheyniy, V.N. (FGUP GNTs RF - Fiziko-Energeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)) (and others)

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Zashchita poverkhnosti stali v uzkom zazore s ehvtekticheskim rasplavom Pb-Mg

p. 362-367

(RU)

12 refs., 7 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Energeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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HIGH ALLOY STEELS; TUBES; DISTANCE; PROTECTIVE COATINGS; LEAD ALLOYS; MAGNESIUM ALLOYS; EUTECTICS; TEMPERATURE DEPENDENCE; ZIRCONIUM COMPOUNDS; SURFACES

Working area for studying the formation of carbonitride protective coating from Pb-Mg eutectic melt in narrow gap (0.15 mm) between coaxially placed 16Kh12VMSFBR steel tubes 11000 mm long have been developed and manufactured. As the melt moved along the gap between the coaxially placed tubes sharp temperature jumps have been determined. Proof tests have been

carried out at 923-693 K temperature drop. Using laser emission spectrometer on the inner side of the steel zirconium have been detected in different quantities depending on the distance from zirconium source

Разработан и изготовлен рабочий участок для исследований по формированию карбонитридного защитного покрытия из эвтектического расплава Pb-Mg в узком зазоре (0,15 мм) между коаксиально расположенными трубками из стали 16X12ВМСФБР длиной 1100 мм. По мере продвижения сплава вдоль зазора между коаксиально расположенными трубками наблюдали резкие скачки температуры. Проведены пробные испытания при перепаде температуры 923-693 К. С помощью лазерного эмиссионного спектрометра на поверхности внутренней стороны стали обнаружен цирконий в различных количествах в зависимости от расстояния до источника циркония

Marangoni convection in fuel elements with liquid metal sublayer **S42**

Likhanskij, V.V.; Ivonin, D.V.; Evdokimov, I.A. (Troitskij Inst. Innovatsionnykh i Termoyadernykh Issledovaniy, Troitsk (RU))

Thermal physics of fast reactors (Thermal physics-2013)

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Конвексия Марангони в твэлах с жидкометаллическим подслоем

p. 368-381

(RU)

40 refs., 7 figs., 3 tabs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

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**FUEL ELEMENTS; MASS TRANSFER; HEAT TRANSFER; GASES; CONVECTION;
LIQUID METALS; FLUID FLOW; TEMPERATURE DEPENDENCE; CORROSION;
EROSION**

Analysis of heat- and mass-transfer in liquid metal sublayer of fuel element in the presence of gas bubbles is conducted. Analysis of the effects related with developing Marangoni convection is done. Assessed values are present for liquid metal flow velocities, temperature nonuniformity on inner side of fuel element cladding and in fuel pellets depending on gap size, physical properties of liquid metal in the gap, on heat generation rate and on average temperature in liquid-metal sublayer. It is shown that Marangoni convection can lead to fast corrosion on inner surface of the cladding. It is pointed out that at high values of convection rate the mechanism of material erosion also can be initiated

Проведен анализ тепло- и массопереноса в жидкометаллическом подслое твэла при наличии газовых пузырей. Выполнен анализ эффектов, связанных с развитием конвекции Марангони. Приведены оценочные значения для скоростей течений жидкого металла, неоднородности температуры на внутренней поверхности оболочки твэла и в топливных таблетках в зависимости от величины зазора, физических свойств жидкого металла в зазоре, от мощности энерговыделения и от средней температуры в жидкометаллическом подслое. Показано, что конвекция Марангони может приводить к быстрой коррозии внутренней поверхности оболочки. Отмечается, что при высоких значениях скорости конвекции может также инициироваться механизм эрозии материала

Compensation effect for impurity solubility in liquid metals

S37

Osipov, A.A. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Kompensatsionnyj ehffekt dlya rastvorimosti primesej v zhidkikh metallakh

p. 382-384

(RU)

4 refs., 1 fig., 1 tab.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

LEAD; LEAD ALLOYS; BISMUTH ALLOYS; LIQUID METALS; COOLANTS; IMPURITIES; SOLUBILITY; MELTING POINTS; THERMODYNAMIC ACTIVITY

Experimental data of different authors on impurity solubility in lead are analyzed. It is shown that the slope of compensatory dependences for Pb-Me (Me - Al, Cu, Co, Mn, Ge, U) systems is near in absolute magnitude to the melting points of corresponding impurity. The physical interpretation of compensation effect for impurity solubility in liquid metals is suggested, it is that the slope of compensatory dependence is determined by physical properties of the phase under saturation (stratification), and its shift by impurity activity coefficient in the solution

Проанализированы экспериментальные данные различных авторов по растворимости примесей в свинце. Показано, что наклон компенсационных зависимостей для систем Pb-Me (Me - Al, Cu, Co, Mn, Ge, U) близок по абсолютной величине к температуре плавления соответствующей примеси. Предложена физическая интерпретация компенсационного эффекта для растворимости примесей в жидких металлах, заключающаяся в том, что

наклон компенсационной зависимости определяется физическими свойствами фазы при насыщении (расслоении), а ее сдвиг - коэффициентом активности примеси в растворе

Thermodynamics of melts on the base of lead and bismuth

S37

Osipov, A.A. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Термодинамика расплавов на основе свинца и висмута

p. 385-388

(RU)

2 refs., 7 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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**LIQUID METALS; COOLANTS; OXYGEN COMPOUNDS; IMPURITIES;
THERMODYNAMIC ACTIVITY; ELECTROMOTIVE FORCE; CONCENTRATION RATIO;
REGENERATION**

It is known that dissolved oxygen has effect on the state of protective coatings of heavy liquid metal coolant pipelines; the form of oxygen determines also the kinetics of hydrogen regeneration of the reactor circuit. It is shown that the solid phase composition in oxygen-saturated Pb-Bi melts depends on melt composition. The temperature dependence of lead oxide activity in oxygen-saturated Pb-Bi melts determines the corresponding dependence of solid phase composition

Известно, что растворенный кислород влияет на состояние защитных покрытий трубопроводов с тяжелыми жидкометаллическими теплоносителями; форма существования кислорода определяет также кинетику водородной регенерации контура. Показано, что состав твердой фазы в насыщенных кислородом расплавах Pb-Bi зависит от состава расплава. Температурная зависимость активности оксида свинца в насыщенных кислородом расплавах Pb-Bi определяет соответствующую зависимость состава твердой фазы

Investigation of steel corrosion products mass transfer in sodium. Methodology of investigations and results of first experiments

S37

Alekseev, V.V.; Kozlov, F.A.; Sorokin, A.P.; Orlova, E.A.; Kondrat'ev, A.S.; Varseev, E.V. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Issledovanie massoperenosa produktov korrozii stali v natrii. Metodologiya issledovanij i rezul'taty pervykh ehksperimentov

p. 389-396

(RU)

9 refs., 8 figs., 2 tabs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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COOLANTS; SODIUM; IMPURITIES; MASS TRANSFER; MATHEMATICAL MODELS; BENCH-SCALE EXPERIMENTS; STEEL-CR18NI10TI; OXYGEN; CONCENTRATION RATIO; PHYSICAL PROPERTIES; CHEMICAL PROPERTIES; COMPARATIVE EVALUATIONS

Values of physicochemical constants characterizing mass transfer in the system sodium - structural material - impurities have been ascertained. The work included the following stages: modification of mathematical model and computer code; development of the constant determination technique; realization of experimental investigations; carrying out of calculations, analysis and generalization of data obtained

Уточнены значения физико-химических констант, характеризующих массоперенос в системе натрия - конструкционный материал - примеси. Работа включала следующие этапы: доработку математической модели и программы расчета на ЭВМ; разработку методики определения констант; проведение экспериментальных исследований; проведение расчетов, анализа и обобщения полученных данных

Mass transfer and precipitation of dispersed particles in inhomogeneous filtering porous media

S42

Bondarenko, I.M.; Kozlov, F.A.; Sorokin, A.P.; Astakhova, N.Eh. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

Thermal physics of fast reactors (Thermal physics-2013)

Obninsk (RU)

30 Oct - 1 Nov 2013

Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Massoperenos i osazhdenie dispersnykh chastits v neodnorodnykh fil'truyushchikh poristykh sredakh

p. 397-401

(RU)

5 refs., 3 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

SODIUM; COOLANTS; FILTRATION; FILTERS; MASS TRANSFER; MATHEMATICAL MODELS; NANOPARTICLES; DISTRIBUTION FUNCTIONS; EFFICIENCY

Calculational and theoretical technique which permits to describe stationary and nonstationary processes of mass transfer in porous media (filters) is suggested. The problem of two-phase mixture (liquid sodium and impurity) transfer in porous media is under consideration in the case when sodium contains finely dispersed micro- and nano-sized impurity. Distributions of deposits in the filters in dependence to filtration rate and degree of packing are presented. It is pointed out that density fluctuations of packing effects on filter restriction and efficiency. This effect is essential in the case of fine particles when diffusion precipitation becomes prevailing

Предложена расчетно-теоретическая методика, которая позволяет описывать стационарные и нестационарные процессы массопереноса в пористых средах (в фильтрах). Рассматривается задача переноса в пористой среде двухфазной смеси (жидкий натрий и примесь) в случае, когда натрий содержит мелкодисперсную примесь микро- и наноразмеров. Приведены распределения отложений в фильтрах в зависимости от скорости фильтрации и плотности набивки. Отмечается, что флуктуации плотности упаковки влияют на сопротивление и эффективность фильтра. Это влияние существенно для случая мелких частиц, когда диффузионное осаждение становится преобладающим

Investigations in justification of reactor tank built-in sodium cleanup system

S21

Kalyakin, S.G.; Kozlov, F.A.; Sorokin, A.P.; Alekseev, V.V.; Shcherbakov, S.I.; Kondrat'ev, A.S.; Varseev, E.V. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Obninsk (RU)

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Teplofizika reaktorov na bystrykh nejtronakh (Teplofizika-2013)

Issledovaniya v obosnovanie vstroennoj v bak reaktora sistemy ochistki natriya

p. 402-409

(RU)

2 refs., 4 figs., 1 tab.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

SODIUM; COOLANTS; LIQUID METALS; COLD TRAPS; IMPURITIES; COOLANT CLEANUP SYSTEMS; PURIFICATION; MASS TRANSFER; BENCH-SCALE EXPERIMENTS

At developing future nuclear power plants the decision is taken on installation of coolant cleanup system in reactor vessel. The main element of the cleanup system is in-vessel cold traps. The first versions of such traps are designed and corresponding calculational data on mass transfer in the trap is obtained using different codes. On the base of calculational results for various versions of industrial cold traps (with sodium and argon cooling) refinement of engineering solutions is suggested with account for measures increasing production and impurity capacity of cold traps. The conclusion is done on preference of sodium cooled trap variant. Recommendations are given on improving cold trap design in order to increase its production and impurity capacity

При разработке перспективных АЭС принято решение о размещении системы очистки в баке реактора. Основным элементом данной системы очистки являются встроенные в бак реактора холодные ловушки. Были разработаны первые версии таких ловушек и получены соответствующие расчетные данные по массопереносу внутри ловушки с использованием различных кодов. На основе результатов расчетов для различных версий промышленных холодных ловушек (с натриевым и аргоновым охлаждением) предложено уточнение технических решений с учетом мер по увеличению производительности и емкости холодных ловушек по примесям. Сделан вывод о предпочтении варианта ловушки с натриевым охлаждением. Даны рекомендации по улучшению конструкции холодной ловушки с целью увеличения ее производительности и емкости по примесям

Application of open CFD package for heat and mass transfer calculation in cold trap prototype

S21

Varseev, E.V.; Alekseev, V.V.; Kondrat'ev, A.S. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

Thermal physics of fast reactors (Thermal physics-2013)

Obninsk (RU)

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Применение открытого CFD paketa dlya rascheta teplomassoobmena v prototipe kholodnoj lovushki

p. 410-420

(RU)

35 refs., 12 figs., 1 tab.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

HEAT TRANSFER; MASS TRANSFER; FAST REACTORS; SODIUM; COOLANTS; REACTOR COOLING SYSTEMS; COLD TRAPS; MATHEMATICAL MODELS; C CODES; IMPURITIES

Calculation of heat and mass transfer in prototype of cold trap (CT) for fast reactor of new generation is carried out. It is shown that buoyant forces are prominent in sodium heat transfer in CT cavity. The temperature and velocity fields have complicated (wavy) character and depend heavily on flow rate through the trap. It is pointed out that the maximum rate of impurity accumulation on the trap wall at normal operation is the value of order of 10^{-8} mm/s, the places of the maximal deposition growth - CT jacket on the level of the second and fifth lap of coil of cooling system due to complicated character of sodium flow

Проведен расчет тепломассообмена в прототипе холодной ловушки (ХЛ) для быстрого реактора нового поколения. Показано, что силы плавучести играют серьезную роль в теплообмене натрия в полости ХЛ. Поля температур и скоростей имеют сложный (волнистый) характер и сильно зависят от расхода через ловушку. Отмечается, что максимальная скорость накопления примесей на стенке ловушки при нормальной эксплуатации составляет величину порядка 10^{-8} мм/с, места наибольшего роста отложений - рубашка ХЛ на уровне второго и пятого витков змеевика системы охлаждения из-за сложного характера течения натрия

Bench tests of new sorption-filtering and getter materials for sodium coolant purification

S37

Papovyants, A.K.; Askhadullin, R.Sh.; Yagodkin, I.V.; Alekseev, V.V.; Bogdanovich, N.G.; Skomorokhova, S.N.; Voronin, I.A. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Obninsk (RU)

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Teplofizika reaktorov na bystrykh nejtronakh (Teplofizika-2013)

Stendovye ispytaniya novykh sorbtsionno-fil'truyushchikh i getternykh materialov dlya ochistki natrievogo teplonosatelya

p. 421-428

(RU)

6 refs., 7 figs., 1 tab.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

BENCH-SCALE EXPERIMENTS; SODIUM; COOLANTS; LIQUID METALS; PURIFICATION; FILTRATION; SORPTION; ADSORBENTS; ALUMINIUM OXIDES; ZIRCONIUM; GETTERING

On the Protva-1 bench tests of means sodium purification are carried out. Module for sorption purification with activated aluminium oxide Alumac 2-5D, module for getter purification with iodide granulated zirconium and module for filtration purification on the base of needle fabric from metal fiber are designed and manufactured. It is mentioned that there is possibility of sorption recovering of dissolved oxygen from sodium using the module with sorbent on the base of commercial Alumac 2-5D at sodium temperature #approx#300 deg C. Tests of the module for getter purification with zirconium pellets do not show significant decrease of dissolved oxygen in coolant. Filtration purification of sodium with the use of the mesh strainer confirms the presence of dispersed impurities in the coolant and possibility of their catching the the method mentioned

Проведены испытания средств очистки натрия на циркуляционном стенде Протва-1. Разработаны и изготовлены модуль сорбционной очистки с активированным оксидом алюминия Alumac 2-5D, модуль геттерной очистки с йодидным гранулированным цирконием и модуль фильтрационной очистки на основе иглопробивного полотна из металловолокон. Отмечается возможность сорбционного извлечения растворенного кислорода из натрия при использовании модуля с сорбентом на основе промышленного Alumac 2-5 D при температуре натрия #арргох#300 град С. Испытания модуля геттерной очистки с циркониевыми гранулами не показали заметного снижения концентрации растворенного кислорода в теплоносителе. Фильтрационная очистка натрия с помощью сетчатого фильтра подтвердила наличие взвешенных примесей в теплоносителе и возможность их улавливания данным методом очистки

Verification of thermohydraulic code HYDRA-IBRAE/LM and calculations of fast reactor facility components

S42

Alipchenkov, V.M.; Vasil'ev, S.I.; Veretentsev, V.A. (Federal'noe Gosudarstvennoe Byudzhethnoe Uchrezhdenie Nauki Inst. Problem Bezopasnogo Razvitiya Atomnoj Ehnergetiki Rossijskoj Akademii Nauk, Moscow (RU)) (and others)

Thermal physics of fast reactors (Thermal physics-2013)

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30 Oct - 1 Nov 2013

Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Verifikatsiya teplogidravlicheskego raschetno koda HYDRA-IBRAE/LM i raschety

komponentov reaktornykh ustanovok na bystrykh nejtronakh

p. 429-443

(RU)

18 refs., 12 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

THERMAL HYDRAULICS; H CODES; VERIFICATION; HEAT TRANSFER; FLUID FLOW; LIQUID METALS; COOLANTS; FAST REACTORS; MATHEMATICAL MODELS; ACCURACY; COMPARATIVE EVALUATIONS

A short review is given for models using in thermohydraulic code HYDRA-IBRAE/LM and the results of verification of calculational code on the problems of liquid metal coolant flow and heat transfer. It is shown that developed version of code HYDRA-IBRAE/LM simulates one-phase flow of lead, sodium and lead-bismuth coolants with high accuracy and the processes of sodium boiling with good one. The results of applied calculations of once-through steam generators are considered. It is pointed out that code HYDRA-IBRAE/LM represents correctly physics of the processes and phenomena taking place in the steam generator. The results of cross-verification calculations of lead steam generator by codes HYDRA-IBRAE/LM and TRIANA-4 show satisfactory agreement of results on temperatures of coolants and materials of channel walls in Field tube

Представлен краткий обзор моделей, используемых в теплогидравлическом коде HYDRA-IBRAE/LM, и результатов верификации расчетного кода на задачах течения и теплообмена жидкометаллических теплоносителей. Показано, что разработанная версия кода HYDRA-IBRAE/LM моделирует однофазное течение свинцового, натриевого и свинцово-висмутового теплоносителей с высокой точностью и с хорошей точностью - процессы кипения натрия. Рассмотрены результаты прикладных расчетов прямоточных парогенераторов. Отмечается, что код HYDRA-IBRAE/LM правильно отражает физику процессов и явлений, протекающих в парогенераторе. Результаты кросс-верификационных расчетов кодами HYDRA-IBRAE/LM и TRIANA-4 свинцового парогенератора показывают удовлетворительное согласование результатов по температурам теплоносителей и материалов стенок каналов в трубке Фильда

TR-BN program verification on the base of BN-600 reactor operational data S21

Fadeev, I.D.; Dmitrieva, I.V.; Osipov, S.L.; Rogozhkin, S.A.; Shepelev, S.F. (OAO Opytnoe Konstruktorskoe Byuro Mashinostroeniya im. I.I. Afrikantova, Nizhnij Novgorod (RU))

Thermal physics of fast reactors (Thermal physics-2013)

Obninsk (RU)

30 Oct - 1 Nov 2013

Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)
Верификация программы TR-BT на базе эксплуатационных данных реактора BN-600
p. 444-452

(RU)

4 refs., 10 figs., 2 tabs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj
Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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**FAST REACTORS; T CODES; REACTOR OPERATION; COMPARATIVE
EVALUATIONS; ACCURACY; THERMAL HYDRAULICS**

Verification of the program TR-BN for calculation of static parameters (temperatures and flow rates) of BN reactor facility using for justification of design characteristics during normal operation modes is performed. Verification of TR-BN program is carried out by comparison of calculational results with operational data, obtained on BN-600 reactor facility, and the results obtained according to the Korsar/GP program. Performed verification calculations show that in the area of applicability program TR-BN describes parameters change in dependence on reactor facility BN power with accuracy and conservatism sufficient for engineering calculations

Выполнена верификация программы ТР-БН, предназначенной для расчета статических параметров (температур и расходов) РУ БН, используемых для обоснования проектных характеристик в режимах нормальной эксплуатации. Верификация программы ТР-БН проведена путем сравнения результатов расчета с эксплуатационными данными, полученными на РУ БН-600, и результатами по программе Корсар/ГП. Выполненные верификационные расчеты показали, что в области применения программа ТР-БН с достаточными для инженерных расчетов точностью и консервативностью описывает изменение параметров в зависимости от мощности РУ БН

New possibilities of 3D T/H GRIF code at the analysis of efficiency of emergency heat removal systems of fast reactors

S42

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Thermal physics of fast reactors (Thermal physics-2013)

Obninsk (RU)

30 Oct - 1 Nov 2013

Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Novye vozmozhnosti 3D T/G koda GRIF pri analize ehffektivnosti sistem avariynogo otvoda
tepla bystrykh reaktorov

p. 453-463

(RU)

12 refs., 12 figs., 2 tabs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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**G CODES; FAST REACTORS; REACTOR OPERATION; THERMAL HYDRAULICS;
REACTOR ACCIDENTS; VERIFICATION; COMPARATIVE EVALUATIONS**

GRIF code can be classified as one-phase engineering 3D thermohydraulic CFD code of improved assessment. It is intended to calculate dynamics of thermohydraulic parameters in liquid metal nuclear reactor at stationary operation as well as at transition ones. The important peculiarity of the code is possibility to use models of different geometrical dimension for various reactor elements and possibility of thermohydraulic processes simulation not only in the main train of reactor, but in inter-wrapper space too. The basic version of the code is intended to analyze thermohydraulic processes in pool-type fast reactors. The new more universal version of the code (GRIF-II) is suitable to loop-type fast reactors also. Verification of GRIF code is performed both on experimental data obtained under investigation of single phenomena and on integral experiments. Applications of GRIF code to the problems of analysis of emergency cooling down of different power reactors are under consideration

Код GRIF может быть классифицирован как однофазный инженерный 3D теплогидравлический CFD код улучшенной оценки. Он предназначен для расчета динамики теплогидравлических параметров в жидкометаллическом ядерном реакторе, как в стационарных, так и в переходных режимах. Важной особенностью кода является возможность использования моделей разной геометрической размерности для различных элементов реактора и возможность моделирования теплогидравлических процессов не только в основном тракте реактора, но и в межпакетном пространстве. Базовая версия кода предназначена для анализа теплогидравлических процессов в быстрых реакторах с интегральной компоновкой. Новая более универсальная версия кода (GRIF-II) применима также и к быстрым реакторам петлевого типа. Верификация кода GRIF осуществлена как на экспериментальных данных, полученных при исследовании отдельных явлений, так и на интегральных экспериментах. Рассмотрены приложения кода GRIF к задачам анализа режимов аварийного расхолаживания реакторов различной мощности

Verification of thermohydraulic module of SOKRAT-BN program code on the experiments with rod geometry

S21

Vinogradova, Yu.Yu.; Ryzhov, N.I.; Semenov, V.N.; Chalyj, R.V. (IBRAEh RAN, Moscow (RU))

Thermal physics of fast reactors (Thermal physics-2013)

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)
Верификация теплогидравлического модуля программного кода SOKRAT-BN на
экспериментах со стержневой геометрией
p. 464-471
(RU)
3 refs., 12 figs., 7 tabs.
Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)
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Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)
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Thermal physics-2013
Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013). Сборник докладов на
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604 p.
FAST REACTORS; COOLANTS; SODIUM; BOILING; THERMAL HYDRAULICS; FUEL
RODS; VERIFICATION; FLOW RATE; REACTOR ACCIDENT SIMULATION;
ACCURACY; REACTOR SAFETY; FUEL ELEMENT CLUSTERS

For justification of nuclear facilities safety it is important to be able to simulate sodium boiling in fuel rod bundles. SOKRAT-BN integral code allows to consider the peculiarities of two-phase coolant flow in conditions of rod geometry. The results of verification of thermohydraulic module of SOKRAT-BN code on experiments simulating LOF-type accident in rod bundles are given. The results of verification calculations show that SOKRAT-BN integral code has sufficient flexibility and allows to solve problems with rod geometry where it is necessary to take into account the bidimensional distribution of physical values. It increases significantly the result validity and enlarges the range of tasks for simulating with SOKRAT-BN code

Для обоснования безопасности ядерных установок важно уметь моделировать кипение натрия в пучках стержней. Интегральный код СОКРАТ-БН позволяет учитывать особенности двухфазного течения теплоносителя в условиях стержневой геометрии. Приведены результаты верификации теплогидравлического модуля кода СОКРАТ-БН на экспериментах, моделирующих аварию типа LOF в пучках стержней. Результаты верификационных расчетов показывают, что интегральный код СОКРАТ-БН обладает достаточной гибкостью и позволяет рассчитывать задачи со стержневой геометрией, в которых требуется учитывать двумерное распределение физических величин. Это существенно увеличивает достоверность результатов и расширяет круг задач для моделирования кодом СОКРАТ-БН

Experience of web-complex development of NPP thermophysical optimization S97

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Opyt razrabotki veb-kompleksa teplofizicheskoy optimizatsii YaEhU

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(RU)

11 refs., 4 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

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NUCLEAR POWER PLANTS; DOCUMENT TYPES; COMPUTER CODES; ALGORITHMS; DATA PROCESSING; DATA BASE MANAGEMENT; KNOWLEDGE PRESERVATION; EQUIPMENT INTERFACES; OPTIMIZATION; THERMAL HYDRAULICS

Current state of developing computation web complex (CWC) of thermophysical optimization of nuclear power plants is described. Main databases of CWC is realized on the MySQL platform. CWC information architecture, its functionality, optimization algorithms and CWC user interface are under consideration

Описано текущее состояние разработки вычислительного веб-комплекса (ВБК) теплофизической оптимизации ядерных энергетических установок. Основные базы данных ВБК реализованы на платформе MySQL. Рассмотрены информационная архитектура, функциональное наполнение ВБК, алгоритмы оптимизации и пользовательский интерфейс ВБК

Determination of characteristics of polonium release into gaseous phase from HLMC according to SSC RF - IPPE experimental data

S38

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Opreделение kharakteristik vykhoda poloniya iz TZhMT v gazovuyu fazu po ehksperimental'nym dannym GNTs RF - FEhI

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15 refs., 10 figs., 1 tab.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

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LIQUID METALS; COOLANTS; FAST REACTORS; POLONIUM 210; EVAPORATION; POLONIUM; CHEMICAL STATE; THERMODYNAMIC PROPERTIES; THERMODYNAMIC ACTIVITY; EUTECTICS; RADIOACTIVE AEROSOLS; TEMPERATURE RANGE 0400-1000 K; RADIOACTIVITY; TEMPERATURE DEPENDENCE; COMPARATIVE EVALUATIONS; BISMUTH ALLOYS

Analysis of IPPE experimental data on determining ^{210}Po release rate from heavy liquid metal coolants, lead among them, is carried out. Comparison of characteristics of ^{210}Po release from lead-bismuth and lead-lithium eutectics obtained from IPPE data with results of other researchers confirms the reliability of the results obtained in IPPE in 1995. On the base of experimental data analysis the formula of temperature dependence of polonium thermodynamic activity in lead is derived. Within 500-800 deg C temperature range a good convergence of polonium effective pressure values obtained by different researchers is pointed out. It is shown that at temperatures 300-400 deg C measured polonium evaporation rate from all coolants under consideration exceeds noticeably the calculated one

Проведен анализ экспериментальных данных ФЭИ по определению скорости выхода ^{210}Po из тяжелых жидкометаллических теплоносителей, в том числе из свинца. Сравнение характеристик выхода ^{210}Po из свинцово-висмутовой и свинцово-литиевой эвтектики, полученных из данных ФЭИ, с результатами других исследователей подтверждает достоверность результатов экспериментов, выполненных в ФЭИ в 1995 г. На основании анализа экспериментальных данных выведена формула температурной зависимости коэффициента термодинамической активности полония в свинце. В области температур 500-800 град С отмечается хорошая сходимость значений эффективного давления полония в свинцово-висмутовой эвтектике, полученных различными исследователями. Показано, что при температурах 300-400 град С измеренная скорость испарения полония из всех рассмотренных теплоносителей заметно превышает расчетную

Results of corrosion tests of high-temperature composite-ceramic materials in HLMC

S36

Martynov, P.N.; Askhadullin, R.Sh.; Gulevskij, V.A.; Kharchuk, S.E.; Osipov, A.A. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Rezultaty korrozionnykh ispytaniy v TZhMT vysokotemperaturnykh kompozitno-keramicheskikh materialov

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2 refs., 9 figs., 1 tab.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

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COMPOSITE MATERIALS; ALUMINIUM OXIDES; ALUMINIUM HYDROXIDES; SILICON CARBIDES; SILICON NITRIDES; ZIRCONIUM OXIDES; HEAT RESISTANT MATERIALS; CORROSION; EROSION; COOLANTS; LIQUID METALS; TEMPERATURE RANGE 0400-1000 K; TEMPERATURE RANGE 1000-4000 K; MECHANICAL PROPERTIES; MICROSTRUCTURE; CHEMICAL COMPOSITION; CHEMICAL PREPARATION

The results of composite-ceramic materials (CCM) development for using in conditions of high-temperature heavy liquid metal (HLMC) reactors at temperatures 650-1200 deg C are present. Consideration is given to the method of preparation of aerogel AlOOH and test samples of CCM on the base of silicon nitride, silicon carbide, aluminium oxide and zirconium dioxide with and without additions of nanostructured aerogel AlOOH. Mechanical properties and corrosion resistance of obtained CCM samples in HLMC at temperatures up to 1200 deg C are investigated. Corrosion and erosion resistance of series of CCM (of oxide, carbide and nitride class) in HLMC at temperatures up to 1200 deg C in conditions corresponding the conditions of developing nuclear power facilities is confirmed experimentally

Представлены результаты разработки композитно-керамических материалов (ККМ) для применения в условиях высокотемпературных реакторов с тяжелыми жидкометаллическими теплоносителями (ТЖМТ) при температурах 650-1200 град С. Рассмотрен способ получения аэрогеля AlOOH и опытных образцов ККМ на основе нитрида кремния, карбида кремния, оксида алюминия и диоксида циркония без добавок и с добавками наноструктурного аэрогеля AlOOH. Исследованы механические свойства и коррозионная стойкость полученных образцов ККМ в ТЖМТ при температурах до 1200 град С. Экспериментально подтверждена коррозионная и эрозионная стойкость в ТЖМТ целого ряда ККМ (оксидного, карбидного и нитридного классов) при температурах до 1200 град С в условиях, которые соответствуют условиям разрабатываемых ядерных энергетических установок

Results of development of HLMC technology facilities for maintenance of predetermined oxygen conditions

S21

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Rezultaty razrabotok ustrojstv tekhnologii TZhMT dlya podderzhaniya zadannogo kislorodnogo rezhima

p. 497-502

(RU)

7 refs., 3 figs., 3 tabs.

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LIQUID METALS; COOLANTS; OXYGEN POTENTIAL; CONCENTRATION RATIO; CONTROL EQUIPMENT; STAINLESS STEELS; MASS TRANSFER

The advanced method for maintenance of predetermined oxygen conditions in heavy liquid metal coolant is the method of oxygen control with the use of mass-transfer apparatus with solid-phase oxygen source. Consideration is given to designs of mass-transfer apparatus with appendage pump, of pneumoproportioning type and with internal heater. It is pointed out that all apparatus mentioned allow to maintain predetermined oxygen potential of heavy liquid metal coolant and there is possibility to select optimal design for certain controlled facility

Наиболее перспективным методом для поддержания заданного кислородного потенциала в тяжелом жидкометаллическом теплоносителе является метод регулирования содержания кислорода с помощью массообменных аппаратов с твердофазным источником кислорода. Рассмотрены конструкции массообменных аппаратов со встроенным насосом, пневмодозаторного типа и с внутренним нагревателем. Отмечается, что все указанные аппараты позволяют поддерживать заданный кислородный потенциал тяжелого жидкометаллического теплоносителя и есть возможность подобрать оптимальную конструкцию для конкретного объекта регулирования

Results of developing the devices for gaseous reagents addition into HLMC flow relating to research benches and tank-type reactor facilities

S21

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Rezultaty razrabotok ustrojstv vvoda gazovykh reagentov v potok TZhMT primenitel'no k issledovatel'skim standam i reaktornym ustanovkam bakovoj komponovki

p. 503-506

(RU)

4 refs., 7 figs.

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COOLANTS; LIQUID METALS; REDUCTION; COOLANT CLEANUP SYSTEMS; HYDROGEN; BENCH-SCALE EXPERIMENTS; TANK TYPE REACTORS

Consideration is given to experimental validation of efficiency of heavy liquid metal coolant (HLMC) technology processes when using two-component flows HLMC - finely dispersed redox gaseous phase, namely, conducting hydrogen purification of circulation circuit of IPPE bench by means of developed mechanical (disk) gas disperser. The working area for hydrogen purification of circulation liquid metal circuit was installed just before buffer tank, on the length with low linear coolant flow rate. It is shown that gas disperser of considered design is able to work as standard facility of hydrogen purification in HLMC circulation circuits

Рассмотрены экспериментальные доказательства эффективности процессов технологии тяжелых жидкометаллических теплоносителей (ТЖМТ) при использовании двухкомпонентных потоков ТЖМТ - мелкодисперсная окислительно-восстановительная газовая фаза, а именно проведение водородной очистки циркуляционного контура стенда ФЭИ при помощи разработанного механического (дискового) диспергатора газа. Рабочий участок для проведения водородной очистки циркуляционного жидкометаллического контура был смонтирован непосредственно перед буферной емкостью, на участке с низкой линейной скоростью течения теплоносителя. Показано, что диспергатор газа исследованной конструкции способен работать в качестве штатного устройства водородной очистки в циркуляционных контурах с ТЖМТ

Problems of hydrogen - water vapor - inert gas mixture use in heavy liquid metal coolant technology

S21

Ul'yanov, V.V.; Martynov, P.N.; Gulevskij, V.A.; Teplyakov, Yu.A.; Fomin, A.S. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Voprosy primeneniya smesej vodorod - vodyanoj par - inertnyj gas v technologii tyazhelykh zhidkometallicheskich teplonositelej

p. 507-510

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4 refs., 3 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

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**COOLANT CLEANUP SYSTEMS; PURIFICATION; HYDROGEN; WATER VAPOR; RARE
GASES; LEAD ALLOYS; BISMUTH ALLOYS; SURFACES; DEPOSITS; REACTOR
CORES; REACTOR SAFETY**

The reasons of slag deposit formation in circulation circuits with heavy liquid metal coolants, which can cause reactor core blockage, are considered. To prevent formation of deposits hydrogen purification of coolant and surfaces of circulation circuit is used. It consists in introduction of gaseous mixtures hydrogen - water vapor - rare gas (argon or helium) directly into coolant flow. The principle scheme of hydrogen purification and the processes occurring during it are under consideration. Measures which make it completely impossible to overlap of the flow cross section of reactor core, steam generators, pumps and other equipment by lead oxides in reactor facilities with heavy liquid metal coolants are listed

Рассмотрены причины возникновения шлаковых отложений в циркуляционных контурах с тяжелыми жидкометаллическими теплоносителями, которые могут привести к блокаде активной зоны реактора. Для предупреждения образования отложений применяют водородную очистку теплоносителя и поверхностей циркуляционного контура. Она заключается во введении газовых смесей водород - водяной пар - инертный газ (аргон или гелий) непосредственно в поток теплоносителя. Обсуждаются принципиальная схема водородной очистки и процессы, происходящие при ее проведении. Перечислены мероприятия, позволяющие полностью исключить перекрытие проходных сечений активной зоны, парогенераторов, насосов и другого оборудования оксидами свинца в реакторных установках с тяжелыми жидкометаллическими теплоносителями

Sorption purification of Pb-containing wash and spent decontamination solutions of reactor facilities with HLMC from radionuclides

S12

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Sorbtsionnaya ochistka ot radionuklidov Pb-soderzhashchikh otmyvochnykh i otrabotannykh
dezaktiviruyushchikh rastvorov RU s TZhMT

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(RU)

7 refs., 3 tabs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

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RADIOACTIVE WASTES; LIQUID WASTES; COOLANTS; LIQUID METALS; PURIFICATION; DECONTAMINATION; STRONTIUM 90; CESIUM 137; SORPTION; ADSORBENTS; OPTIMIZATION; PRECIPITATION; FILTRATION; MEMBRANES; ION EXCHANGE MATERIALS

Consideration is given to sorption purification techniques of liquid radioactive wastes of spent wash and decontamination solutions (SWDS) of reactor facilities with heavy liquid metal coolants. Possibility of sorption purification of SWDS from radionuclides has been examined experimentally in respect to sorption of main radionuclides ^{137}Cs and ^{90}Sr from model solutions. It is shown that none of natural adsorbents studied (tripoli, clinoptilolite, bentonite) provides necessary purification of model SWDS from radionuclides. For this reason, for developing the SWDS treatment technique and optimization of parameters of sorption-membrane recovery of radionuclides the process is recommended which consists of precipitation-filtration operations of lead low-soluble salts recovery or operation of dilution in combination with membrane-sorption operations of contaminating radionuclides removing

Рассмотрены сорбционные способы очистки жидких радиоактивных отходов отработанных отмывочных и дезактивирующих растворов (ООДР) реакторных установок с тяжелыми жидкометаллическими теплоносителями. Возможность сорбционной очистки ООДР от радионуклидов была экспериментально проверена применительно к извлечению основных радионуклидов ^{137}Cs и ^{90}Sr из модельных растворов. Показано, что ни один из изученных природных сорбентов (трепел, клиноптилолит, бентонит) не обеспечивает необходимую очистку модельных ООДР от радионуклидов. Поэтому для разработки способа обращения с ООДР и оптимизации параметров сорбционно-мембранного извлечения радионуклидов рекомендуется процесс, включающий осадительно-фильтрационные операции выделения труднорастворимых солей свинца, или операции разбавления в сочетании с мембранно-сорбционными операциями удаления загрязняющих радионуклидов

Experimental investigations of device characteristics of oxygen thermodynamic activity regulation and lead coolant purification on high-temperature facilities S21

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Ehksperimental'nye issledovaniya kharakteristik ustrojstv regulirovaniya termodinamicheskoy aktivnosti kisloroda i ochistki svintsovogo teplonosatelya na vysokotemperaturnykh stendakh p. 515-523

(RU)

8 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

COOLANTS; LEAD; LEAD ALLOYS; BISMUTH ALLOYS; OXYGEN; HYDROGEN; BENCH-SCALE EXPERIMENTS; CONCENTRATION RATIO; THERMODYNAMIC ACTIVITY; CONTROL EQUIPMENT

The processes accompanying regulation of oxidation potential of heavy liquid metal coolants using ejection of oxidizing or reducing gas mixtures by falling coolant jets on its free level with entrainment of finely dispersed gas phase are studied. The advantages of the method are the following: formation of two-component flow with bubble size of 1.0-2.0 mm and less; simplicity and small weight-size parameters; absence of rotating parts and special heaters; controllability of flow rate ejecting gas during commissioning or permanently during operation and others

Исследованы процессы, сопровождающие регулирование окислительного потенциала тяжелых жидкометаллических теплоносителей с использованием эжекции окислительных или восстановительных газовых смесей падающими струями теплоносителя на его свободный уровень с захватом мелкодисперсной фазы газа. К преимуществам данного метода можно отнести: формирование двухкомпонентного потока с размерами пузырей 1,0-2,0 мм и менее; простоту и малые массогабаритные показатели конструкции; отсутствие вращающихся частей и специальных электронагревателей; возможность контроля расхода эжектируемого газа при пусконаладочных работах или постоянно в процессе эксплуатации и другие преимущества

Testing methods of gaseous admixtures in HLMC circuits

S46

Shelemet'ev, V.M.; Martynov, P.N.; Askhadullin, R.Sh.; Storozhenko, A.N.; Sadovnichij, R.P.; Ivanov, I.I. (GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Metody kontrolya gazovykh primesej v konturakh s TZhMT

p. 524-534

(RU)

11 refs., 12 figs., 3 tabs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

CONTROL EQUIPMENT; SENSORS; PRIMARY COOLANT CIRCUITS; COOLANTS; LEAD; LIQUID METALS; HYDROGEN; OXYGEN; ACCURACY; SENSITIVITY; REACTOR CONTROL SYSTEMS; ON-LINE CONTROL SYSTEMS

Control of gas phase is the effective method for state diagnostics of circuit of nuclear power facilities with heavy liquid metal coolants. Use of developing in IPPE solid electrolyte and conductometric oxygen and hydrogen sensors, which are set directly in gas system of the primary circuit, allows to maintain continuously control of oxygen and hydrogen content as well as operational efficiency and accuracy of these parameters determination under various situations related with oxygen and hydrogen insertion into circuit. Sensors ensure long-term safe operation under extreme conditions of high temperatures, pressures, humidity, etc., and are advanced devices for application in nuclear power facilities with heavy liquid metal coolants

Контроль газовой фазы является эффективным способом диагностики состояния контура ядерных энергетических установок с тяжелыми жидкометаллическими теплоносителями. Использование разрабатываемых в ФЭИ твердоэлектролитных и кондуктометрических датчиков контроля кислорода и водорода, располагающихся непосредственно в газовой системе первого контура, позволяет обеспечить непрерывный контроль содержания кислорода и водорода, а также оперативность и точность определения данных параметров при различных ситуациях, связанных с попаданием кислорода и водорода в контур. Датчики сохраняют длительную работоспособность в экстремальных условиях повышенных температур, давлений, влажности и т.д. и являются перспективными устройствами для использования в ядерных энергетических установках с тяжелыми жидкометаллическими теплоносителями

Development status of oxygen solid electrolyte sensors in HLMC in respect to monoblock reactor facilities

S46

Martynov, P.N.; Askhadullin, R.Sh.; Storozhenko, A.N.; Shelemet'ev, V.M.; Sadovnichij, R.P.; Ivanov, I.I. (GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Sostoyanie razrabotok tverdoehlektrolitnykh datchikov kisloroda v TZhMT primenitel'no k monoblochnym reaktornym ustanovkam

p. 535-540

(RU)

7 refs., 6 figs., 1 tab.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

SENSORS; CONTROL EQUIPMENT; LIQUID METALS; LEAD; LEAD ALLOYS; BISMUTH ALLOYS; OXYGEN; THERMODYNAMIC ACTIVITY; SOLID ELECTROLYTES; MECHANICAL PROPERTIES; SENSITIVITY; ACCURACY; PRIMARY COOLANT CIRCUITS

The results of developing sensors on the base of solid electrolytes to control oxygen in lead and lead-bismuth coolants are considered. It is found out that ceramic detecting elements on the base of solid electrolytes from oxide ceramics are able to work a long time in conditions of high temperatures and thermal shocks in molten metals (in gases). They show stable conducting and mechanical properties, thermal resistance, low gas permeability. Using considered detecting elements different sensors, including ones for monoblock reactors and facilities, are developed and manufactured. The given sensors can be used for both continuous and periodical oxygen control in heavy liquid metal coolants

Рассматриваются результаты разработки датчиков на твердых электролитах для контроля кислорода в свинцовом и свинцово-висмутовом теплоносителях. Установлено, что керамические чувствительные элементы на основе твердых электролитов из оксидной керамики способны работать длительное время в условиях повышенных температур и термоударов в расплавах металлов (в газах). Они обладают стабильными проводящими и механическими свойствами, термостойкостью, низкой газопроницаемостью. С использованием рассмотренных чувствительных элементов разработаны и изготовлены различные датчики, в том числе для моноблочных реакторов и установок. Данные датчики могут быть использованы как для непрерывного, так и для периодического контроля кислорода в тяжелых жидкометаллических теплоносителях

Lead-lithium alloy - coolant and tritium-fertile substance of thermonuclear facilities

S36

Arnol'dov, M.N.; Zasorin, I.I.; Loginov, N.I.; Mikheev, A.S.; Morozov, V.A. (GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)); Solomatin, A.E. (IAI RAN, Moscow (RU))

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Сплав свинца-лития - теплоноситель и тритий-способный производящий вещество термоядерных

ustanovok

p. 541-555

(RU)

21 refs., 5 figs., 5 tabs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

LITHIUM ALLOYS; LEAD ALLOYS; THERMODYNAMIC ACTIVITY; PHYSICAL PROPERTIES; CORROSION; STAINLESS STEELS; COOLANTS; LIQUID METALS; PROTECTIVE COATINGS; SOLUBILITY; THERMONUCLEAR REACTORS; ELECTRICAL PROPERTIES

Lead-lithium alloys of eutectic composition is one of the advanced materials for heat transfer and tritium production in thermonuclear reactor. One of its few advantages is its high electrical resistance in comparison with metal lithium. This decreases hydraulic resistance when the alloy is pumping in the area of reactor high magnetic fields. The analysis of literature data and experimental data obtained in IPPE shows that the problem of compatibility of planned structural materials with lead-lithium alloy is a serious one. Protective coatings on the base of aluminium oxide do not assure reliable protection but only increases the service life of materials by 2-3 thousands hours

Сплав свинца и лития эвтектического состава - один из перспективных материалов для переноса тепла и наработки трития в термоядерном реакторе. Одним из немногих преимуществ этого сплава является его большое электросопротивление по сравнению с металлическим литием. Это уменьшает гидравлическое сопротивление при прокачке сплава в области сильных магнитных полей реактора. Анализ литературных данных и результаты экспериментальных исследований, выполненных в ФЭИ, свидетельствуют о том, что проблема совместимости предполагаемых конструкционных материалов со сплавом свинец-литий остается весьма острой. Защитные покрытия на основе оксида алюминия не обеспечивают надежной защиты, а лишь увеличивают срок службы материалов на 2-3 тысячи часов

Experiment results of partial reduction of lead oxides

S37

Ivanov, K.D.; Niyazov, S.-A.; Osipov, A.A. (GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Rezul'taty issledovanij chastichnogo vosstanovleniya oksidov svintsa

p. 555-559

(RU)

3 refs., 5 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

LEAD OXIDES; OXIDATION; REDUCTION; CHEMICAL COMPOSITION; X-RAY DIFFRACTION; STOICHIOMETRY; OXYGEN; PARTIAL PRESSURE

Investigation results on partial reduction of granulated lead monoxides in the flow of gas-reducer (hydrogen) are present. It is shown that in respect to lead oxide use in apparatus for hydrogen transfer into oxidized form (in hydrogen igniters) there are good reasons not to allow reaching of consumption level of oxygen capacity more than 20%. The results obtained may be indirect proof of existence of low-oxygen phase with approximate formula $PbO_{0.8}$

Представлены результаты исследований по частичному восстановлению гранулированных монооксидов свинца в потоке газа-восстановителя (водорода). Показано, что применительно к использованию оксида свинца в аппаратах для перевода водорода в окисленную форму (в дожигателях водорода) целесообразно не допускать достижения степени расходования запаса кислорода выше 20%. Полученные результаты могут являться косвенным подтверждением наличия низкокислородной фазы с примерной формулой $PbO_{0.8}$

Investigation of MSR module characteristics at incomplete fuel dissolution in FLiNaK

S36

Shcherbakov, S.I.; Ovcharenko, M.K. (GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Issledovanie kharakteristik modulya ZhSR pri nepolnom rastvorenii topliva v FLiNaK'e

p. 560-564

(RU)

1 ref., 4 figs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

MOLTEN SALT FUELED REACTORS; URANIUM FLUORIDES; PLUTONIUM FLUORIDES; SOLUBILITY; T CODES; CRYSTALLIZATION; DENSITY; TEMPERATURE RANGE 0400-1000 K; TEMPERATURE DISTRIBUTION; CONCENTRATION RATIO; CAPACITY

Assessment is given to characteristics of projected molten salt reactor module behavior in condition of incomplete fuel (uranium, plutonium fluorides) dissolution in FliNaK salt due to insufficient high temperature of molten salt. By calculation (code TURBOFLOW) spatial distributions of temperature, concentration of solved and crystallized parts of fuel are obtained. The results obtained are evaluating ones because of absence of a number of data for FliNaK salt and projected molten salt reactor modes

Дана оценка характеристик режимов проектируемого модуля жидкосолевого реактора в условиях неполного растворения топлива (фториды урана, плутония) в соли FliNaK из-за недостаточно высокой температуры жидкой соли. Расчетным путем (код TURBOFLOW) получены пространственные распределения температуры, концентрации растворенной и кристаллизованной части топлива. Полученные результаты являются оценочными из-за отсутствия многих данных для соли FliNaK и режимов проектируемого жидкосолевого реактора

Peculiarities of tritium mass transfer in high-temperature NPP with sodium coolant for hydrogen production

S21

Kozlov, F.A.; Konovalov, M.A.; Sorokin, A.P.; Alekseev, V.V. (GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Osobennosti massoperenosa tritiya v vysokotemperaturnoj YaEhU s natrievym teplonositelem dlya proizvodstva vodoroda

p. 565-573

(RU)

18 refs., 6 figs., 3 tabs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

HYDROGEN PRODUCTION; SODIUM COOLED REACTORS; SODIUM; HYDROGEN; TRITIUM; PURIFICATION; COOLANT CLEANUP SYSTEMS; MEMBRANES; CONCENTRATION RATIO; CALCULATION METHODS; MASS TRANSFER

The calculation technique of characteristics of sodium cleanup system (CS) from hydrogen (tritium) using its vacuum-pumping through special membranes with increased hydrogen permeability is given. It is pointed out that purification of sodium from tritium to concentrations providing maximum permissible concentration in produced hydrogen lays additional claims to CS from hydrogen. Using secondary circuit sodium CS which provides tritium concentration in the product produced in the tertiary circuit not exceeding maximum permissible concentration, tritium entry into the environment runs about 4×10^4 Bq/s. Requirements of normal ecological situation are achieved by the methods widely used now in nuclear industry. Under these conditions 98% of tritium will be accumulated in secondary circuit sodium CS, 0.6% - in environment, 1.3% - in finish product

Приведена методика расчета характеристик системы очистки (СО) натрия от водорода (трития), использующая вакуумирование его через специальные мембраны с повышенной проницаемостью по водороду. Отмечается, что очистка натрия от трития до концентраций, обеспечивающих в производимом водороде предельно допустимую концентрацию (ПДК), предъявляет дополнительные требования к СО от водорода. При использовании СО натрия второго контура, обеспечивающей концентрацию трития в продукте, получаемом в третьем контуре, не превышающую ПДК, поступление трития в окружающую атмосферу составит 4×10^4 Бк/с. Требования обеспечения нормальной экологической обстановки при этом достигаются методами, широко применяемыми сегодня в атомной промышленности. При этих условиях 98% трития будет аккумулироваться в СО натрия второго контура, 0,6% - в окружающей среде, 1,3% - в готовом продукте

Comparative analysis of supercritical water-cooled reactors technology development in Russia and abroad (following the materials of two conferences took place in China in 2013)

S99

Baranaev, Yu.D.; Glebov, A.P.; Kirillov, P.L.; Klushin, A.V. (FGUP GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Теплофизика реакторов на быстрых нейтронах (Теплофизика-2013)

Sravnitel'nyj analiz razvitiya tekhnologii reaktorov, okhlazhdaemykh vodoj sverkhkriticheskogo davleniya, za rubezhom i v Rossii (po materialam dvukh konferentsij, proshedshikh v 2013 g. v Kitae)

p. 574-590

(RU)

18 refs., 8 figs., 5 tabs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

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604 p.

WATER COOLED REACTORS; SUPERCRITICAL STATE; CRITICAL PRESSURE; MEETINGS; REACTOR SAFETY; REACTOR OPERATION; THERMAL HYDRAULICS; REACTOR MATERIALS; FUEL CYCLE; REACTOR OPERATORS; TRAINING; COMPARATIVE EVALUATIONS

In 2013 two international conferences took place in China: The 6-th International Symposium on Supercritical Water-Cooled Reactors - ISSCWR-6 (3-7 March, Shenzhen); 21 International Conference on Nuclear Engineering - ICONE21 (29 July - 2 August, Chengdu). On the first conference there were near hundred reports deal with reactors cooled by water of supercritical pressure (SCP); on the second one all problems of nuclear engineering were under consideration: operation, protection, safety, thermal hydraulics, materials, fuel cycle, etc. Analysis of foreign investigations on WWER SCP give evidence on their systemacity, coordination, participation in many projects and, that is most significantly, on advance personnel training. It is pointed out that Rosatom does not show interest to give support of investigations on WWER SCP, and in some years it may lead to situation that Russia will be nowhere in technology of SCP water-cooled reactor

В 2013 г. в Китае прошли две международные конференции: The 6-th International Symposium on Supercritical Water-Cooled Reactors - ISSCWR-6 (3-7 марта 2013 г., Шеньчжень); 21 International Conference on Nuclear Engineering - ICONE21 (29 июля - 2 августа 2013 г., г. Ченду). На первой конференции были представлены около ста докладов, посвященных реакторам, охлаждаемым водой сверхкритического давления (СКД); на второй были рассмотрены все вопросы атомной энергетики: эксплуатация, защита, безопасность, термогидравлика, материалы, топливный цикл и пр. Анализ зарубежных исследований по ВВЭР СКД свидетельствует об их системности, согласованности, соучастии во многих проектах, и, что особенно важно, о заблаговременной подготовке кадров. Отмечается, что Госкорпорация Росатом не проявляет какой-либо заинтересованности в поддержке исследований по ВВЭР СКД, что через несколько лет может привести к тому, что Россия безнадежно отстанет в освоении технологии водоохлаждаемых реакторов при СКД

New correlation for heat transfer at forced motion of supercritical water in vertical tubes

S42

Deev, V.I.; Kharitonov, V.S. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)); Churkin, A.N. (OAO OKB GIDROPRESS, Podol'sk (RU))

Thermal physics of fast reactors (Thermal physics-2013)

Obninsk (RU)

30 Oct - 1 Nov 2013

Teplofizika reaktorov na bystrykh nejtronakh (Teplofizika-2013)

Novaya korrelyatsiya dlya teplootdachi pri vyzhdenom dvizhenii vody sverkhkriticheskogo

davleniya v vertikal'nykh trubakh

p. 561-604

(RU)

32 refs., 17 figs., 2 tabs.

Kalyakin, S.G.; Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A. (eds.)

Predpriyatie Goskorporatsii Rosatom - FGUP Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

Thermal physics of fast reactors (Thermal physics-2013). Book of reports at the Conference Thermal physics-2013

Teplofizika reaktorov na bystrykh nejtronakh (Teplofizika-2013). Sbornik dokladov na konferentsii Teplofizika-2013

ISBN 978-5-906512-57-4

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GNTs RF - FEhI

2014

604 p.

HEAT TRANSFER; COMPARATIVE EVALUATIONS; THERMAL HYDRAULICS; CORRELATIONS; VERTICAL AXIS TURBINES; TUBES; REACTOR COOLING SYSTEMS; SUPERCRITICAL STATE; MATHEMATICAL MODELS; ACCURACY

The results investigations are considered, the output of which is new expression for heat transfer from the surface of heated vertical tubes at motion of supercritical water in them. New expression is simple enough and predicts heat transfer with acceptable accuracy for engineering calculations. For checking new correlation on the base of experiments fulfilled by national and foreign authors data bank containing more than 3000 experimental points is prepared. Calculations show that average deviation of calculated coefficient of heat transfer from experimental one consists -0.017 , and root-mean-square deviation consists 0.181

Рассмотрены предварительные итоги исследования, результатом которого стало новое выражение для теплоотдачи от поверхности обогреваемых вертикальных труб при движении в них воды сверхкритического давления. Новое выражение достаточно простое и предсказывает теплоотдачу с приемлемой для инженерных расчетов точностью. Для проверки новой корреляции на основе экспериментов, выполненных ранее как отечественными, так и зарубежными авторами, был подготовлен банк данных, содержащий более 3000 опытных точек. Расчеты показали, что среднеарифметическое отклонение расчетного коэффициента теплоотдачи от экспериментального равно $-0,017$, а среднеквадратичное отклонение равно $0,181$

Thermophysical nuclear power engineering benches of FSUE SSC RF - IPPE S22

Kukharchuk, O.F.; Sorokin, A.P.; Trufanov, A.A.; Chernonog, V.L. (eds.)

Predpriyatie Goskorporatsii Rosatom Gosudarstvennyj Nauchnyj Tsentr Rossijskoj Federatsii - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU)

Teplofizicheskaya stendovaya baza po atomnoj ehnergetike FGUP GNTs RF-FEhI

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2014

130 p.

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BENCHMARKS; HYDRODYNAMICS; HEAT TRANSFER; COOLANTS; REACTOR INSTRUMENTATION; REACTOR SAFETY; LEAK DETECTORS; STEAM GENERATORS

The information is given on characteristics and possibilities of experimental thermophysical facilities of SSC RF - IPPE, which is used for research and applied investigations in the field of hydrodynamics, heat transfer, physical chemistry and technology of coolants. These facilities also can be used for justification of parameters and safety of nuclear power installations with coolants of different types and purposes (water, gases, alkali and heavy metals), for testing sensors, devices, apparatus and reactor equipment under conditions near to the reactor ones

Представлена информация о характеристиках и возможностях экспериментальной теплофизической базы ГНЦ РФ - ФЭИ, которая используется для проведения поисковых и прикладных научных исследований в области гидродинамики, теплообмена, физической химии и технологии теплоносителей. Это оборудование также может быть использовано для обоснования параметров и безопасности ЯЭУ с теплоносителями различного типа и назначения (вода, газы, щелочные и тяжелые металлы), испытания датчиков, приборов, аппаратов и реакторного оборудования в условиях, близких к реакторным

LXIII International conference NUCLEUS 2013. Fundamental problems of nuclear physics and atomic power engineering (LXIII Meeting on nuclear spectroscopy and nuclear structure). Dedicated to 70th anniversary of the National Research Nuclear University MEPhI. Book of abstracts
S73;S72;S21;S46

Vlasnikov, A.K. (ed.)

Russian Academy of Sciences, Moscow (RU); The State Atomic Energy Corporation Rosatom, Moscow (RU); Inst. for Nuclear Research of the Russian Academy of Sciences, Moscow (RU); National Research Nuclear Univ. MEPhI, Moscow (RU); Saint-Petersburg State Univ., Saint-Petersburg (RU); Joint Inst. for Nuclear Research, Dubna (XJ)

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NUCLEAR STRUCTURE; NUCLEAR REACTIONS; NUCLEAR PROPERTIES; PARTICLE INTERACTIONS; NUCLEAR MODELS; REACTORS; NUCLEAR ENGINEERING; LEADING ABSTRACT; MEETINGS

The scientific program of the conference covers almost all problems in nuclear physics and its applications in astrophysics, medicine and other fields of science and technique. The recent results of experimental investigations of atomic nucleus properties and nuclear reactions mechanisms are presented. The theoretical problems of atomic nucleus, fundamental interactions and nuclear reactions are discussed. The fundamental problems of current nuclear power engineering are considered

Научная программа конференции охватывает почти все проблемы ядерной физики и ее применений в астрофизике, медицине и других областях науки и техники. Представлены

последние результаты экспериментальных исследований свойств атомного ядра и механизмов ядерных реакций. Обсуждаются теоретические проблемы атомного ядра, фундаментальных взаимодействий частиц и ядерных реакций. Рассмотрены основные вопросы современной ядерной энергетики

Greeting to the participants of the International conference NUCLEUS 2013 **S99**

Strikhanov, M.N. (NRNU MEPhI, Moscow (RU))

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Achievements and future opportunities at radioactive nuclear beams **S73;S43**

Penionzhkevich, Yu.E. (Flerov Lab. of Nuclear Reactions, JINR, Dubna (XJ)), e-mail: pyuer@mail.ru

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Neutrino nucleus elastic coherent scattering

S73

Efremenko, Yu. (MEPhI, Moscow (RU)), e-mail: yefremen@utk.edu

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NEUTRINO REACTIONS; ELASTIC SCATTERING; NUCLEI; TARGETS; CROSS SECTIONS; WEINBERG ANGLE; WEAK INTERACTIONS

Femtosecond laser induced photonuclear reactions

S73

Nedorezov, V.G. (Inst. for Nuclear Research RAS, Moscow (RU)), e-mail:

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Damping of high-energy particle-hole-type nuclear excitations: a semimicroscopic model

S73

Urin, M.H. (National Research Nuclear Univ. MEPhI, Moscow (RU)), e-mail: urin@theor.mephi.ru

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LANDAU DAMPING; ELECTRON-HOLE COUPLING; EXCITATION; RELAXATION; GIANT RESONANCE; RANDOM PHASE APPROXIMATION; OPTICAL MODELS; PHOTONUCLEAR REACTIONS; THEORETICAL DATA

Nuclear theory in application to quantum chaos

S71

Bunakov, V.E. (Petersburg Nuclear Physics Inst., Gatchina (RU); Saint-Petersburg State Univ., Saint-Petersburg (RU)), e-mail: bunakov@VB13190.spb.edu

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CHAOS THEORY; QUANTUM MECHANICS; LIOUVILLE THEOREM; DEGREES OF FREEDOM; STRENGTH FUNCTIONS; SINGLE-PARTICLE MODEL; SINGLE-PARTICLE MODES; SYMMETRY BREAKING; MANY-BODY PROBLEM; QUANTUM NUMBERS; THEORETICAL DATA

The theory of two-step two-protons decays of nuclei

S73

Kadmensky, S.G.; Ivankov, Yu.V. (Voronezh State Univ., Voronezh (RU)), e-mail:

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Investigation of the properties of nuclei with extreme neutron excess in neighborhood of neutron magic numbers

S73

Gridnev, K.A. (Frankfurt Inst. for Advances Studies, J.W.G. Univ., Frankfurt, Hessen (DE)); Inst. of Physics, Saint-Petersburg State Univ., Saint-Petersburg (RU)); Greiner, W.; Schramm, S.; Gridnev, D.K. (Frankfurt Inst. for Advances Studies, J.W.G. Univ., Frankfurt, Hessen (DE)); Tarasov, V.N.; Tarasov, D.V. (NSC, Kharkov Inst. of Physics and Technology, Kharkov (UA)), e-mail: vtarasov@kipt.kharkov.ua; Vinas, X. (Univ. of Barcelona, Barcelona (ES))

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MAGIC NUCLEI; EVEN-EVEN NUCLEI; NEUTRON-RICH ISOTOPES; GROUND STATES; HARTREE-FOCK METHOD; SKYRME POTENTIAL; NUCLEAR PROPERTIES; NUCLEAR STRUCTURE; THEORETICAL DATA

Perspective studies of strong interactions and hadronic matter in antiproton-proton annihilation

S72

Barabanov, M.; Vodopyanov, A. (Joint Inst. for Nuclear Research, Dubna (XJ)), e-mail: barabanov@jinr.ru

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ANNIHILATION; STRONG INTERACTIONS; PROTON-ANTIPROTON INTERACTIONS;
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THEORETICAL DATA

Recent heavy flavor results from PHENIX experiment at relativistic heavy ion collider

S73

Berdnikov, A.Ya.; Golovin, A.V.; Kotov, D.O. (Saint-Petersburg State Polytechnical Univ., Saint-Petersburg (RU)), e-mail: dm_kotov@phmf.spbstu.ru; Ivanishchev, D.A.; Riabov, V.G.; Riabov, Yu.G. (B.P. Konstantinov Petersburg Nuclear Physics Inst., Gatchina (RU))

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HEAVY ION REACTIONS; GOLD; TARGETS; COLLIDING BEAMS; GEV RANGE 100-1000; QUARKS; TRANSVERSE MOMENTUM; PIONS; QUANTUM FLAVORDYNAMICS; ELECTRONS; EXPERIMENTAL DATA

Description of like-particle pairing in formalism of quartets

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Sambataro, M. (Istituto Nazionale di Fisica Nucleare - Sezione di Catania, Catania (IT)), e-mail: michelangelo.sambataro@et.infn.it; Sandulescu, N. (National Inst. of Physics and Nuclear Engineering, Bucharest-Magurele (RO)), e-mail: sandulescu@theory.nipne.ro

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PAIRING INTERACTIONS; GROUND STATES; HAMILTONIANS; QUARTET MODEL; TIN ISOTOPES; ELECTRON CORRELATION; OCCUPATION NUMBER; BCS THEORY; THEORETICAL DATA

Beta-decay and structure of odd nuclei

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Mitroshin, V.E. (Kharkov National Univ., Kharkov (UA))

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ODD-ODD NUCLEI; BETA DECAY; COLLECTIVE MODEL; QUASIPARTICLE-PHONON MODEL; PROBABILITY; GROUND STATES; EXCITED STATES; WEAK INTERACTIONS; WAVE FUNCTIONS; NUCLEAR STRUCTURE; MASS NUMBER; THEORETICAL DATA

Pygmy-dipole resonance in nuclei

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Modern energy density functional for nuclei and the nuclear matter equation of state

S73

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Chernyshev, B.A.; Gurov, Yu.B.; Korotkova, L.Yu.; Lapushkin, S.V.; Tel'kushev, M.V.; Sandukovsky, V.G. (National Research Nuclear Univ. MEPhI, Moscow (RU)), e-mail: korotkovalara@gmail.com

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Chernyshev, B.A.; Gurov, Yu.B.; Korotkova, L.Yu.; Kovalev, K.N.; Lapushkin, S.V.; Sandukovskiy, V.G. (National Research Nuclear Univ. MEPhI, Moscow (RU)), e-mail: korotkovalara@gmail.com

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Demekhina, N.A. (Erevan State Univ., Erevan (AM)); Skobelev, N.K.; Penionzhkevich, Yu.E. (Joint Inst. for Nuclear Research, Dubna (XJ)); Chuvilskaya, T.V.; Shirokova, A.A. (Lomonosov Moscow State Univ., Skobeltsyn Inst. of Nuclear Physics, Moscow (RU)), e-mail: tatchuv@anna19.sinp.msu.ru

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Kuterbekov, K.A.; Kabyshev, A.M.; Almanov, G.A.; Nurachmetov, T.N. (L.N. Gumilyov Eurasian National Univ., Astana (KZ); LLP Astana N-Tech, Astana (KZ)), e-mail:

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Barkov, L.M.; Nikolenko, D.M.; Rachek, I.A. (Budker Inst. of Nuclear Physics, Novosibirsk (RU)) (and others)

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Nedorezov, V.; Pshenichnov, I.; Turinge, A. (Inst. for Nuclear Research of RAS, Moscow (RU)), e-mail: turinge56@mail.ru

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Studies of the charged double pion photoproduction of protons with CLAS **S73**

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S73

Varlamov, V.V.; Peskov, N.N. (Skobeltsyn Inst. of Nuclear Physics, Lomonosov Moscow State Univ., Centre for Photonuclear Experiments Data, Moscow (RU)), e-mail:

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#Greek Small Letter Pi#" + #Greek Small Letter Pi#" -p electroproduction cross sections

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Fedotov, G.V. (Univ. of South Carolina, Columbia, South Carolina (US); Skobeltsyn Inst. of Nuclear Physics, Moscow State Univ., Moscow (RU)), e-mail: glebfedotov@gmail.com; Burkert, V.D.; Elouadrhiri, L. (Thomas Jefferson National Accelerator Facility, Virginia (US)); Golovach, E.N.; Ishkhanov, B.S.; Isupov, E.L. (Skobeltsyn Inst. of Nuclear Physics, Moscow State Univ., Moscow (RU)); Gothe, R.W. (Univ. of South Carolina, Columbia, South Carolina (US)); Mokeev, V.I. (Thomas Jefferson National Accelerator Facility, Virginia (US); Skobeltsyn Inst. of Nuclear Physics, Moscow State Univ., Moscow (RU))

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Isupov, E.L.; Golovach, E.N. (Moscow State Univ., Skobeltsyn Inst. of Nuclear Physics, Moscow (RU)), e-mail: e.l.isupov@gmail.com; Burkert, V.D.; Elouadrhiri, L. (Thomas Jefferson National Accelerator Facility, Virginia (US)); Gothe, R.W.; Fedotov, G.V. (Univ. of South Carolina, Columbia, South Carolina (US)); Ishkhanov, B.S. (Moscow State Univ., Skobeltsyn Inst. of Nuclear Physics, Moscow (RU); Moscow State Univ., Physics Dept., Moscow (RU)); Mokeev, V.I. (Thomas Jefferson National Accelerator Facility, Virginia (US); Moscow State Univ., Skobeltsyn Inst. of Nuclear Physics, Moscow (RU))

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METHOD; TELESCOPE COUNTERS; EXPERIMENTAL DATA

**Measurements of photonuclear reactions yields natural titanium at
E_#gamma#_m_a_x #Almost Equal To# 55 MeV**

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Skorkin, V.M. (Inst. for Nuclear Research RAS, Moscow (RU)), e-mail: skorkin@inr.ru

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