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International Atomic Energy Agency



Barkas effect in the semiclassical approximation

S72

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Ehffekt Barkasha v kvaziklassicheskom priblizhenii

p. 193-200

(RU)

21 refs., 8 figs.

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PHYSICS; BOHR THEORY; ELECTRONS; ELEMENTARY PARTICLES; ENERGY LOSSES

In this paper, it has been shown that the inclusion of the position of an atomic electron with respect to a projectile particle modifies the contribution from the adiabatic interaction. This is a reason for the reduction of energy loss of slow particles as compared to the Bohr theory. It has been found that the energy loss per unit length can be represented as a product of two functions: the Bohr energy losses and the dynamic function representing the corrections associated with the features of the motion of an electron in a target atom

В работе показано, что учет положения атомного электрона относительно пролетающей частицы приводит к увеличению вклада от адиабатического взаимодействия, при котором в большей части столкновений не происходит передачи энергии, что является причиной уменьшения энергетических потерь медленных частиц по сравнению с теорией Бора. Получено, что потери энергии на единице длины пути могут быть представлены в виде произведения двух функций - энергетических потерь в соответствии с теорией Бора и динамической функции, учитывающей поправки, связанные с изменением положения электрона в атоме мишени в процессе столкновения

Problem of the construction of a Hamiltonian for Maxwell's equations

S97

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Problema postroeniya gamil'toniana polevykh uravnenij Maksvella

p. 201-205

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14 refs.

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PHYSICS; MATHEMATICAL MODELS; HAMILTONIAN FUNCTION; EQUATIONS;
MAXWELL EQUATIONS

The paper proposes a reformulation of the problem in the case of a field without sources has been proposed. This allows using a symplectic Hamiltonian formalism. The proposed formalism will be used to substantiate methods of vector (Hamiltonian) bundles in transformation optics

В статье предлагается переформулировка задачи для случая полей без источников, что позволяет использовать симплектический гамильтонов формализм. Предполагаемый формализм будет использован авторами в дальнейшем для обоснования методов векторных (гамильтоновых) расслоений в трансформационной оптике

Development of regimes of production of experimental multifilamentary Nb₃Sn superconductors by the Powder-in-Tube method

S75

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Razrabotka rezhimov izgotovleniya ehksperimental'nykh mnogovolokonnykh Nb₃Sn sverkhprovodnikov po metodu poroshok v trube

p. 206-213

(RU)

6 refs., 9 figs.

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SUPERCONDUCTIVITY; SUPERCONDUCTORS; POWDERS; INTERMETALLIC
COMPOUNDS; SIMULATORS

Results of the development of the production regimes for multifilamentary Nb₃Sn superconductors by the powder-in-tube method, as well as the investigations of manufactured wires, have been reported. As a source of tin for the solid diffusion reaction of the formation of the Nb₃Sn superconducting phase, the intermetallic Cu₆Sn₅ powder has been used because of the simplest and cheapest method of its production

В данной работе проведены исследования и представлены результаты разработки режимов изготовления многоволоконных Nb₃Sn сверхпроводников по методу порошок в трубе. В качестве источника олова для твердофазной реакции образования сверхпроводящей Nb₃Sn фазы был использован интерметаллидный порошок Cu₆Sn₅, как наиболее простой и дешевый в изготовлении

Stochastic modeling and optimization of the precipitation centrifugation of powder precipitates

S97

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Stokhasticheskoe modelirovanie i optimizatsiya protsessa osaditel'nogo tsentrifugirovaniya poroshkovykh osadkov

p. 214-218

(RU)

18 refs., 4 figs.

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**MATHEMATICS; MATHEMATICAL MODELS; MATHEMATICAL SOLUTIONS;
COMPUTER CALCULATIONS; FUEL CYCLE**

A computer mathematical simulator of a submersible rotating machine has been proposed to optimize the precipitation centrifugation process of powder precipitates. The program system on imitation modeling and calculation of the centrifuge has been developed. The developed mathematical simulator of the centrifuge and the program system can be used to optimize the processes and equipment for centrifuging, as well as systems and processes of various fuel cycles

Предложен компьютерный математический имитатор погружной центрифуги вертикального типа, используемый для оптимизации процесса осадительного центрифугирования порошковых осадков. Разработан комплекс программ по имитационному моделированию и расчету центрифуги. Построенный математический имитатор и комплекс программ могут быть использованы для оптимизации аппаратов и процессов центрифугирования, систем и процессов ядерных топливных циклов

On the uniaxial molding of elements of a nuclear fuel based on uranium oxide S11

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K voprosu ob odnoosnom formovanii ehlementov yadernogo topliva na osnove oksidov urana

p. 219-223

(RU)

7 refs., 1 fig.

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**NUCLEAR FUELS; FABRICATION; POWDERS; SINTERING; SINTERED MATERIALS;
URANIUM OXIDES**

Causal relationships of defects in the production of ceramic nuclear fuel in the process of sintering of preforms based on press powders of uranium oxide are discussed. The reasons reducing the likelihood of achieving the requirements for preforms by the sintering stage have been considered. It has been shown that compliance with the requirements of the system approach at different stages of the production of nuclear fuel elements can significantly improve the quality and the probability of sintering of preforms in size

В работе обсуждаются причинно-следственные связи появления дефектов при производстве керамического ядерного топлива в процессе спекания отформованных заготовок на основе пресс-порошков оксида урана. Рассмотрены причины, снижающие уровень вероятности достижения требований, предъявляемых к отформованным заготовкам со стороны этапа спекания. Показано, что соблюдение требований системного подхода на различных этапах производства элементов ядерного топлива, существенно повысит их качество и вероятность спекания отформованных заготовок в размер

Method for the reduction of thermal loading on a model at the internal ballistics stage

S97

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Metod snizheniya teplovykh nagruzok na model' na stadii vnutrennej ballistiki

p. 224-228

(RU)

2 refs., 8 figs.

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

Benchmarks on the surface of a model under aeroballistic study are plotted for performing photogrammetric measurements. At the internal ballistics stage, thermal loading on the model surface can reduce the quality of received photo information. A method for decreasing thermal loading and saving the quality of the mark state on the model surface is described

Реперные марки на поверхности испытываемой в аэробаллистическом эксперименте модели наносятся с целью проведения фотограмметрических измерений. На стадии внутренней баллистики тепловые нагрузки на поверхности модели могут приводить к ухудшению качества получаемой фотографической информации. Описан метод, позволяющий снизить тепловые нагрузки и сохранить приемлемое качество состояния маркированной поверхности модели

Method for the reduction of the drag force of models at the external ballistics stage

S97

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Metod snizheniya soprotivleniya modelej na stadii vneshnej ballistiki

p. 229-232

(RU)

4 refs., 3 figs.

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PHYSICS; MATHEMATICAL MODELS; HAMILTONIAN FUNCTION; EQUATIONS;
CHEMICAL COMPOSITION

The 1200-m/s aeroballistic experimental data obtained at studying the blind cones whose surfaces were covered by the VALKON-1 composition based on fluorine-containing surfactants are reported. The drag force coefficients at the free steady flow around the models, as well as data on the effect of the VALKON-1 modifying composition covering the surface with on the drag force, have been determined

Представлены результаты испытаний моделей затупленного конуса, поверхность которых была обработана композицией на основе фторсодержащих поверхностно-активных веществ ВАЛКОН-1, проведенных в аэробаллистическом типе на скоростях $V=1200$ м/с. В результате испытаний определены значения коэффициента лобового сопротивления моделей при свободном невозмущенном обтекании и получены экспериментальные данные о влиянии покрытия поверхности моделей модифицирующей композицией для обработки твердых поверхностей ВАЛКОН-1 на величину силы лобового сопротивления

Test of an element (power insertion) loaded by an internal explosion

S97

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Ispytanie ehlementa (silovoj vstavki) pri ee nagruzhenii vnutrennim vzryvom

p. 233-235

(RU)

3 refs., 6 figs.

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PHYSICS; MATHEMATICAL MODELS; EQUATIONS; CHEMICAL COMPOSITION;
EXPLOSIONS; DEFORMATION

An element (power insertion) loaded by an internal explosion has been experimentally studied. The aim of tests is to study the deformation ability of a protective element-power steel-sand insertion. Data on radial migrations of the insertion after explosive loading have been obtained

Данная работа посвящена экспериментальному исследованию элемента (силовой вставки) при ее нагружении внутренним взрывом. Целью проведения испытаний являлось изучение деформационной способности защитного элемента - силовой сталепесочной вставки. Получение данных по радиальным перемещениям вставки после взрывного нагружения

Development of an explosion-proof chamber for a complex of small-aspect X-ray tomography

S97

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Razrabotka vzryvozashchitnoj kamery dlya kompleksa malorakursnoj rentgenovskoj tomografii p. 236-242 (RU)

4 refs., 10 figs., 2 tabs.

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MATHEMATICS; MATHEMATICAL MODELS; FUNCTIONAL MODELS; EXACT SOLUTIONS; COMPUTERIZED TOMOGRAPHY; TOMOGRAPHY; X-RAY EQUIPMENT

For investigations of explosives, it is necessary to develop a reusable explosion-proof chamber (with an operation load of no less than 50 kg trinitrotoluene) for a new complex of small-aspect X-ray tomography, as well as for systems of deactivation and recycling, a package of the instrument and necessary fitting-out for the mounting and dismounting of elements of the explosion-proof chamber in the complex of small-aspect X-ray tomography ensuring its service and maintenance

В связи с необходимостью исследований взрывчатых веществ возникла необходимость в разработке конструкции взрывозащитной камеры (ВЗК). ВЗК - многоразового использования (с эксплуатационной нагрузкой не ниже 50 кг ТНТ) для нового комплекса малоракурсной рентгеновской томографии (МРТ), а также систем дезактивации и утилизации, комплекта инструмента и необходимой оснастки для монтажа и демонтажа элементов ВЗК-МРТ, обеспечивающих ее обслуживание и эксплуатацию

Approximate solution of the boundary value problem for a nonlinear heat equation with a nonlinear source

S97

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Priblizhennoe reshenie kraevoj zadachi dlya nelinejnogo uravneniya teploprovodnosti so stepennym istochnikom

p. 243-247

(RU)

5 refs., 4 figs.

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PHYSICS; MATHEMATICAL MODELS; EQUATIONS; CHEMICAL COMPOSITION;
NONLINEAR PROBLEMS; EXACT SOLUTIONS

A nonlinear heat equation with a nonlinear source is considered. The parameters at which an approximate solution can be constructed in the form of a propagating thermal front have been determined. Exact solutions in some cases have been obtained

Рассматривается задача для нелинейного уравнения теплопроводности с нелинейным источником. Определены значения параметров, при которых можно построить приближенное решение в виде распространяющегося теплового фронта. В ряде случаев получены точные решения уравнения

Exact generalized and functional separable solutions of unsteady axisymmetric and plane boundary-layer equations

S97

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Tochnye resheniya s obobshchennym i funktsional'nym razdeleniem peremennykh nestatsionarnykh uravnenij osesimmetrichnogo i ploskogo pogrannichnogo sloya

p. 248-261

(RU)

43 refs.

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

We describe a number of new generalized and functional separable solutions of this nonlinear third-order equation, which depend on two to five arbitrary functions. Many of the solutions are expressed in terms of elementary functions if the arbitrary functions are also elementary. We formulate two theorems that enable one to generalize exact solutions of unsteady axisymmetric boundary-layer equations by including additional arbitrary functions. It has been shown that the unsteady axisymmetric boundary-layer equations are reduced to a nonlinear second-order equation by the von Mises-type transformation

Описан ряд новых точных решений нелинейного уравнения третьего порядка, которые содержат от двух до пяти произвольных функций. Многие из полученных решений выражаются в элементарных функциях, если произвольные функции берутся из класса элементарных функций. Описаны также новые классы точных решений уравнений плоского пограничного слоя. Сформулированы две теоремы, позволяющие обобщать точные решения нестационарных уравнений осесимметричного пограничного слоя,

включая в них дополнительные произвольные функции. Показано, что уравнения осесимметричного пограничного слоя с помощью преобразования Мизеса сводятся к нелинейному уравнению второго порядка

Simulation of the dynamics of contrast agents in an ultrasonic field

S97

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Modelirovanie dinamiki kontrastnykh agentov v ul'trazvukovom pole

p. 262-267

(RU)

16 refs., 3 figs.

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**MATHEMATICS; MATHEMATICAL MODELS; MATHEMATICAL SOLUTIONS;
NUMERICAL SOLUTION; ULTRASONIC BUBBLE CHAMBERS**

A one-dimensional computational model allowing the investigation of the oscillatory dynamics and translational displacement of free bubbles and contrast agents in ultrasonic fields of varying intensity has been developed. Numerical simulation of contrast agents with thick and thin shells has been conducted. The influence of the rheological properties of the shell on the dynamics of contrast agents has been investigated and their resonant frequency has been estimated

Построена одномерная вычислительная модель, позволяющая исследовать осцилляционную динамику и трансляционное смещение свободных пузырьков и контрастных агентов в ультразвуковых полях различной интенсивности. Проведено численное моделирование контрастных агентов с толстыми и тонкими оболочками. Исследовано влияние реологических свойств оболочки на динамику контрастных агентов и получена оценка их резонансной частоты

Numerical solution of control problems for differential equations with a linearly transformed argument

S97

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Chislennoe reshenie zadach upravleniya dlya differentsial'nykh uravnenij s linejno preobrazovannym argumentom

p. 268-273

(RU)

2 refs., 1 tab.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; EQUATIONS; DIFFERENTIAL EQUATIONS; FUNCTIONS

The problem of control for differential equations with a deviating argument has been considered. Deviations of the argument are linear functions with rational coefficients. Formulas for approximate management functions have been obtained

В статье рассматривается задача управления для дифференциального уравнения с отклоняющимся аргументом. Отклонения аргумента являются линейными функциями с рациональными коэффициентами. Основным результатом являются формулы приближенных функций управления

Two transistor cluster DICE Cells with the minimum area for a hardened 28-nm CMOS and 65-nm SRAM layout design

S97

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Ehlementy pamyati minimal'noj ploshchadi na osnove yacheek DICE dlya pomexoustojchivykh КМОП 28 nm i 65 nm ОЗУ

p. 274-280

(RU)

5 refs., 5 figs., 3 tabs.

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

A hardened DICE cell layout design is based on the two spaced transistor clusters of the DICE cell each consisting of four transistors. The larger the distance between these two CMOS transistor clusters, the more robust the hardened DICE SRAM to Single Event Upsets. Some versions of the 28-nm and 65-nm DICE CMOS SRAM block composition have been suggested with minimum cluster distances of 2.27-2.32 μm . The area of hardened 28-nm DICE CMOS cells is larger than the area of 28-nm 6T CMOS cells by a factor of 2.1

Комплементарная структура металл-оксид-полупроводник (КМОП) ячейка памяти DICE с разделенными на две группы транзисторами может обеспечить высокую помехоустойчивость КМОП ОЗУ к воздействиям одиночных ядерных частиц. Проведены проектирование и сравнение топологических вариантов базовых элементов памяти с последовательным взаимным чередованием групп транзисторов КМОП ячеек DICE с расстояниями между чувствительными парами транзисторов двух групп каждой из ячеек более 2 μm для КМОП ОЗУ с проектными нормами 28 нм и 65 нм. Базовые элементы памяти являются основой блоков накопителей КЭШ ОЗУ. Обеспечено минимальное увеличение площади ячеек DICE всего в 2.1 раза и блоков накопителей ОЗУ на ячейках DICE в 2.33 раза по сравнению с площадью отдельной 6Т ячейки и блока накопителей на 6 транзисторных ячейках

Change in the local atomic and crystal structures in a martensitic transformation in TiNiCu shape memory alloys

S37

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Izmenenie lokal'noj atomnoj i kristallicheskoj struktur pri martensitnom perekhode v splavakh TiNiCu s ehffektom pamyati formy

p. 285-294

(RU)

28 refs., 10 figs., 2 tabs.

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PHYSICS; PHYSICAL CHEMISTRY; MARTENSITE; MARTENSITIC STEELS; CRYSTAL STRUCTURE; SPECTROSCOPY

Changes in the local and crystal structures of Ti, Ni, and Cu atoms in Ti50Ni25Cu25 shape memory alloys have been investigated using X-ray diffraction and extended X-ray absorption fine structure spectroscopy (EXAFS) in the temperature range of direct and inverse martensitic transformations. The analysis of the EXAFS spectra shows that the bonds involving Ni atoms have the highest degree of disorder and the change in the local environment of Ni atoms is significant for the occurrence of the shape memory effect, while Cu atoms occupy the normal positions in the crystallographic structure and have the lowest displacement amplitude leading to the stabilization of both phases

Методом рентгеновской дифракции и EXAFS-спектроскопии исследована перестройка локальной и кристаллической структуры сплавов Ti50Ni25Cu25 в температурном интервале прямого и обратного мартенситного превращения. Анализ EXAFS-спектров показал, что связи, включающие атомы никеля, имеют большую степень разупорядочения, и изменение локального окружения атомов никеля играет существенную роль в проявлении эффекта памяти формы, тогда как атомы меди занимают правильные кристаллографические положения в структуре и имеют наименьшую амплитуду смещений, что приводит к стабилизации обеих фаз

Microwave radiation at plasma oscillations of electrons at the front of a shock wave

S70

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Mikrovolnovoe izluchenie pri plazmennykh kolebaniyakh ehlektronov na fronte udarnoj volny

p. 295-297

(RU)

5 refs., 1 fig.

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PHYSICS; MICROWAVE RADIATION; PLASMA; PLASMA WAVES; ELECTRON
PLASMA WAVES; SHOCK WAVES

A mechanism of the generation of microwave radiation by powerful high-altitude explosions, which is caused by plasma oscillations of electrons at the front of a shock wave, has been considered. The antenna temperature of a radiometer has been estimated. The characteristics of the generated pulse have been discussed

Рассмотрен механизм генерации микроволнового излучения мощными высотными взрывами, обусловленный плазменными колебаниями электронов на фронте ударной волны. Проведена оценка антенной температуры радиометра. Обсуждаются характеристики генерируемого импульса

Study of the magnetic field and harmonic content of the electromotive force of a single-phase impact power generator

S70

Shmigirilov, Yu.G. (Dimitrovgradskij Inzhenerno-Tekhnologicheskij Inst. NIYaU MIFI, Dimitrovgrad (RU)), e-mail: shug555@mail.ru

Issledovanie magnitnogo polya i garmonicheskogo sostava EhDS odnofaznogo generatora udarnoj moshchnosti

p. 298-303

(RU)

5 refs., 4 figs., 1 tab.

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PHYSICS; MICROWAVE RADIATION; MAGNETIC FIELD CONFIGURATIONS; SHOCK
WAVES; MAGNETIC CIRCUITS; ASYMMETRY

The features of the formation of the temporary components of the magnetic field and electromotive force of an impact power generator in the presence of the magnetic asymmetry of the magnetic circuit of the stator. The technique allows using numerical calculations of the magnetic field for harmonic analysis of electromagnetic processes in electrical machines of this type

Рассмотрены особенности формирования временных составляющих магнитного поля и электродвижущая сила ударного генератора при наличии магнитной асимметрии магнитопровода статора. Изложена методика, позволяющая использовать численные расчеты магнитного поля для гармонического анализа электромагнитных процессов в электрических машинах подобного типа

Synthesis and properties of porous zeolite aluminosilicate adsorbents

S37

Shilina, A.S.; Milinchuk, V.K.; Burukhin, S.B.; Gordienko, A.B. (Obninskij Inst. Atomnoj Ehnergetiki NIYaU MIFI, Obninsk (RU))

Sintez i svojstva poristyx tseolitopodobnykh metalloalyumosilikatnykh adsorbentov
p. 304-310

(RU)

12 refs., 4 figs., 2 tabs.

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CHEMISTRY; ALUMINIUM; ZEOLITES; ADSORBENTS; SYNTHESIS

Environmentally safe non-energy-intensive methods of the synthesis have been developed and the properties of solid inorganic nanostructured zeolite-like adsorbents of a broad spectrum have been studied. The sorption capacities of the adsorbents with respect to various components of water pollution have been determined

Статья посвящена разработке экологически безопасных неэнергоёмких способов синтеза и изучению свойств твердых неорганических наноструктурированных цеолитоподобных адсорбентов широкого спектра действия. Определены сорбционные емкости адсорбентов по отношению к различным компонентам загрязнения водных сред

Increase in the reliability of diagnostics of bearing rotating mechanisms**S42**

Adamenkov, A.K.; Veselova, I.N. (Volgodonskij Inzhenerno-Tekhnicheskij Inst. NIYaU MIFI, Volgodonsk (RU)); Matveev, A.V. (OAO DIAPROM, Moscow (RU)), e-mail: anri_61@mail.ru

Povyshenie dostovernosti diagnostirovaniya podshipnikovyx uzlov vrashchayushchikhsya mekhanizmov

p. 311-314

(RU)

3 refs., 3 figs.

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MATERIALS; MATERIALS TESTING; ENGINEERING; MECHANICAL ENGINEERING; SAFETY ENGINEERING

Existing methods of the diagnostics of rolling bearings have been briefly analyzed. A new method, based on the cross-spectral analysis of two acoustic signals: direct signal and its envelope-recorded in the ultrasonic range at the inspection of equipment has been proposed

Статья содержит краткий анализ применяющихся в настоящее время методов диагностирования подшипников качения и предложение по применению нового метода, основанного на кросс-спектральном анализе двух акустических сигналов, регистрируемых в ультразвуковом диапазоне при обследовании оборудования - прямого сигнала и его огибающей

Methods for constructing solutions of systems of linear equations arising in elasticity theory and hydrodynamics

S97

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Metody postroeniya reshenij sistem linejnykh uravnenij teorii uprugosti i gidrodinamiki
p. 315-332
(RU)

59 refs., 3 tabs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; EQUATIONS; EXACT SOLUTIONS; DIFFERENTIAL EQUATIONS; HYDRODYNAMICS

The asymmetric and symmetric decomposition methods for various classes of three-dimensional linear (and model nonlinear) systems of equations arising in the theory of elasticity, thermoelasticity, and thermoviscoelasticity, in the mechanics of viscous and viscoelastic incompressible and compressible barotropic gases have been described. It has been shown that the solution of the considered system of four three-dimensional stationary and nonstationary equations in the absence of body forces can be expressed in terms of solutions of three independent equations

Описаны несимметричный и симметричный методы декомпозиции различных классов трехмерных линейных (и модельных нелинейных) систем уравнений, которые используются в теории упругости, термоупругости и термовязкоупругости, в механике вязких и вязкоупругих несжимаемых жидкостей и сжимаемых баротропных газов. Показано, что при отсутствии массовых сил любое решение рассматриваемых стационарных и нестационарных трехмерных систем выражается через решения двух независимых уравнений

Asymptotic expansion of the solution of a Cauchy problem for singularly perturbed differential-operational nonlinear equation

S97

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Asimptoticheskoe razlozhenie resheniya zadachi Koshi dlya singulyarno vozmushchennogo differentsial'no-operatornogo nelinejnogo uravneniya
p. 333-338
(RU)

6 refs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; EQUATIONS; EXACT SOLUTIONS;
DIFFERENTIAL EQUATIONS; ASYMPTOTIC SOLUTIONS; FUNCTIONS

A formal asymptotic expansion of a solution of the initial problem for a singularly perturbed differential-operational nonlinear equation in a small parameter has been constructed in the critical case. Splash functions of and boundary functions have been estimated of found and assessment of the residual member of the expansion has been obtained

Построено формальное асимптотическое разложение по малому параметру решения начальной задачи для сингулярно возмущенного дифференциально-операторного нелинейного уравнения в критическом случае. Найдены оценки функций всплеска и пограничных функций, получена оценка по невязке остаточного члена разложения

Bifurcations of cycles and tori in one boundary value problem for the nonlocal equation of erosion

S97

Kulikov, D.A. (Yaroslavskij Gosudarstvennyj Univ. im. P.G. Demidova, Yaroslavl' (RU)), e-mail: kulikov_d_a@mail.ru

Bifurkatsii tsiklov i torov v odnoj kraevoj zadache dlya nelokal'nogo uravneniya ehrozii
p. 339-346

(RU)

17 refs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; EQUATIONS; EXACT SOLUTIONS;
DIFFERENTIAL EQUATIONS; FUNCTIONS; BIFURCATION

A partial differential equation with deviating spatial variables has been considered. The case of small deviations has been studied. It has been shown that spatially inhomogeneous solutions can be sought as bifurcating solutions from homogeneous equilibrium states and that the wavelength of the corresponding solutions depends almost only on one parameter, the magnitude of deviation

В работе рассмотрено дифференциальное уравнение с частными производными с отклоняющимся пространственным аргументом. Изучен случай малого отклонения. Показано, что пространственно неоднородные решения можно искать как бифурцирующие решения от однородных состояний равновесия, а также что длина волны соответствующих решений практически зависит только от одного параметра - величины отклонения

Filtration of a non-Newtonian fluid in a nonlinear medium of a double structure

S97

Nustrov, V.S. (Ural'skij Federal'nyj Univ. im. Pervogo Prezidenta Rossii B.N. El'tsina,

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Fil'tratsiya nen'yutonovskoj zhidkosti v nelinejnoj srede dvojnoj struktury

p. 347-353

(RU)

21 refs., 4 figs.

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PHYSICS; MATHEMATICAL MODELS; FILTRATION; ANALYTICAL SOLUTION;
DEFORMATION; EQUATIONS

The filtration of a non-Newtonian fluid in an elastically deformable medium has been considered. Filtration is described by a system of two nonlinear partial differential equations. A procedure for the construction of approximate analytical solutions for different boundary conditions has been proposed

Рассматривается фильтрация неньютоновской жидкости в упругодеформируемой среде, представляющей совокупность двух вложенных континуумов с существенно различными фильтрационно-емкостными характеристиками. Фильтрация описывается системой двух нелинейных дифференциальных уравнений с частными производными. Предлагается алгоритм построения приближенных аналитических решений для различных граничных условий

Methods for increasing the accuracy of approximate formulas for the roots of a cubic equation with complex conjugate roots

S97

Maslennikov, V.V.; Avtushko, V.P. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), e-mail: vmaslennikov@mail.ru, avtuchko@mail.ru

Sposoby povysheniya tochnosti priblizhennykh formul opredeleniya kornej kubicheskogo uravneniya s kompleksno-sopryazhennymi kornyami

p. 354-358

(RU)

1 ref., 3 figs.

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

Approximate formulas for determining the frequency and Q-factor of the complex conjugate roots, as well as the frequency of the real root, of the cubic equation for the case where the frequency of the complex-conjugate roots is close to the frequency of the real root have been presented in this work

В работе приводятся приближенные формулы для определения частот и добротности комплексно-сопряженных корней, а также частоты действительного корня кубического уравнения. Также приводятся приближенные формулы определения частоты и

добротности комплексно-сопряженных корней, а также частоты действительного корня при условии, если частота комплексно-сопряженных корней близка к частоте действительного корня

Numerical simulation of the high-velocity interaction of aerial bombs with active defense tools of a target

S97;S98

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Численное моделирование высокоскоростного взаимодействия корпуса авиабомбы с активными средствами защиты цели

p. 359-361

(RU)

8 refs., 3 figs., 1 tab.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; MATHEMATICAL MODELS; SIMULATION; NATIONAL DEFENSE; FLIGHT TESTING; MISSILES; BOMBS

The results of the LS-Dyna environment numerical simulation of the interaction with different velocities and angles of the meeting of the body of a controlled bomb with active air defense, such as fragments of anti-aircraft guided missiles have been presented

Приведены результаты численного моделирования в программной среде LS-Dyna взаимодействия с различными скоростями и углами встречи корпуса управляемой авиабомбы с активными средствами противовоздушной обороны, такими, как осколки зенитных управляемых ракет

Simulation of the Hsao decoders with design rules for 28-, 65-, and 180-nm CMOS at minimized structure elements

S97

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Моделирование декодеров Кхсыао с проектными нормами КМОП 28, 65, 180 нм при минимизированном составе элементов

p. 362-368

(RU)

13 refs., 7 figs., 1 tab.

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PHYSICS; MATHEMATICAL MODELS; EQUATIONS; COMPUTER CODES; ACCURACY

Hsao decoders have been simulated on the basis of the design rules for 28-, 65-, and 180-nm digital CMOS. The application of Hsao decoders with the minimized structure of blocks allows decreasing a time propagation delay and minimizing the decoder area, when the detection of triple errors is not needed. A block of an evaluation of a presence error in an information word, which uses only the syndrome of an error at the input, makes the main contribution to the reduction of the time propagation delay, and the block with the symmetrically-simplified structure for the evaluation of an error vector makes the main contribution to the reduction of the area on a microcircuit chip

Использование комплементарной структуры металл-оксид-полупроводников (КМОП) декодеров Хсяо с проектными нормами 28, 65 и 180 нм при минимизации состава элементов позволяет уменьшить задержку прохождения сигнала и снизить затраты по площади кристалла в случае, когда не требуется детектирование декодером трехкратных ошибок. Минимизация состава элементов заключается в использовании блока, определяющего наличие ошибки только на основе синдрома ошибки, что дает преобладающий вклад в снижение задержки прохождения сигналов на 12-25%, и в использовании блока вычисления вектора ошибки на основе алгоритма дешифрации по симметрично-упрощенной матрице, что дает основной вклад в снижение площади декодера на 11-15%

Search agent technologies with a multilanguage thesaurus

S97;S99

Artamonov, A.A.; Galin, I.Yu.; Leonov, D.V.; Mikhina, E.K.; Onykij, B.N.; Sokolina, K.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), e-mail: elimikhina@yandex.ru

Poiskovyje agentnye tekhnologii s mnogoyazychnym tezaurusom

p. 369-376

(RU)

7 refs., 7 figs.

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MATHEMATICS; MATHEMATICAL MODELS; MATHEMATICAL SOLUTIONS; KNOWLEDGE MANAGEMENT; KNOWLEDGE PRESERVATION; STANDARDIZED TERMINOLOGY

The results of creating multilanguage thesauri have been described. The architecture and typical working process of a multiagent information analysis system (MIAS) in scientific and technological areas with the use of a multilanguage thesaurus have been presented. The model of a multilanguage thesaurus and aspects of creating a Chinese language thesaurus have been described. The results of the experimental agent search for thematic information on plasma physics in Russian, English, and Chinese have been presented

В данной статье описаны результаты работы авторов по созданию многоязычных тезаурусов. Представлены архитектура и типовой процесс работы мультиагентной информационно-аналитической системы (МИАС) по естественнонаучным и технологическим направлениям с использованием многоязычного тезауруса. Описана модель многоязычного тезауруса и особенности формирования тезауруса на китайском

языке. Представлены результаты, полученные в ходе эксперимента по агентному поиску тематической информации по физике плазмы на русском, английском и китайском языках

Prediction of the fatigue curve parameters of high strength steels in terms of the static and microplastic deformations of samples

S36

Shetulov, D.I.; Kryukov, L.T.; Myasnikov, A.M. (Nizhegorodskij Gosudarstvennyj Tekhnicheskij Univ. im. R.E. Alekseeva, Nizhnij Novgorod (RU)), e-mail: mam030941@yandex.ru

Prognozirovanie parametrov krivoj ustalosti vysokoprochnykh stalej po pokazatelyam staticheskoj i mikroplasticheskoj deformatsii obraztsov

p. 381-388

(RU)

6 refs., 10 figs., 2 tabs.

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v. 4(5)

METALS; METAL INDUSTRY; METALLURGY; DEFORMATION; STEELS; FATIGUE

The cycling and static strengths of a wide range of high-strength steels have been experimentally tested. Correlation between the three parameters-microplastic deformation, strain hardening coefficient, and the slope of the curve to the axis of load cycles-has been established

В статье приводятся экспериментальные данные по испытанию на циклическую и статическую прочность широкого спектра высокопрочных сталей. Установлена корреляция между тремя параметрами: микропластической деформацией, коэффициентом деформационного упрочнения и тангенсом угла наклона кривой усталости к оси циклов нагружения

Dependence of the mechanical properties of sheets of ferritic-martensitic ODS steels on their crystallographic texture

S36

Perlovich, Yu.A.; Isaenkova, M.G.; Fesenko, V.A.; Krymskaya, O.A.; Dobrokhotov, P.L. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), e-mail: yuperl@mail.ru; Nikitina, A.A. (OAO VNIINM im. A.A. Bochvara, Moscow (RU))

Zavisimost' mekhanicheskikh svojstv prokatnykh listov iz ferritno-martensitnykh DUO-stalej ot ikh kristallograficheskoj tekstury

p. 389-396

(RU)

9 refs., 7 figs.

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METALS; METAL INDUSTRY; METALLURGY; FERRITIC STEELS; STEELS; MARTENSITIC STEELS

The structure and phase condition, as well as the crystallographic texture and mechanical properties, of sheets of ferritic-martensitic oxide dispersion strengthened (ODS) steels and have been studied. The features of the formation of the texture and substructure in steels after cold rolling have been analyzed

Проведено исследование структурно-фазового состояния кристаллографической текстуры и механических свойств листов из ферритно-мартенситных дисперсно-упрочненных оксидами (ДУО) сталей. Изучены особенности формирования текстуры и субструктурного состояния в сталях при их холодной прокатке

Analytical, numerical, and experimental simulation of tornado flows

S97

Bautin, S.P. (Ural'skij Gosudarstvennyj Univ. Putej Soobshcheniya, Ekaterinburg (RU)); Krutova, I.Yu. (Snezhinskij Fiziko-Tekhnicheskij Inst. NIYaU MIFI, Snezhinsk (RU)); Obukhov, A.G. (Tyumenskij Gosudarstvennyj Neftegazovyy Univ., Tyumen' (RU)), e-mail: SBautin@usurt.ru, IYKrutova@mephi.ru, aobukhov@tsogu.ru

Analiticheskoe, chislennoe i ehksperimental'noe modelirovanie potokov tipa tornado
p. 397-400

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MATHEMATICS; ANALYTICAL SOLUTION; MATHEMATICAL SOLUTIONS;
MATHEMATICAL MODELS; COMPUTERIZED SIMULATION; EQUATIONS

It has been proven that this problem with analytic input data near the point under consideration has a unique analytic solution representable in the form of a convergent series. The analysis of the first coefficients of this series has shown that the circular motion of the gas swirling in the positive direction in the Northern Hemisphere and in the negative direction in the Southern Hemisphere arises immediately at the beginning of the radial flow into the cylinder

Доказано, что при условии аналитичности входных данных поставленной задачи в некоторой окрестности рассматриваемой точки имеется единственное аналитическое решение, представимое в виде сходящегося ряда. Анализ первых коэффициентов этого ряда показал, что при начале радиального стока внутрь цилиндра сразу возникает окружное движение газа, закрученное в Северном полушарии в положительном направлении и в отрицательном направлении для случая Южного полушария

Mathematical simulation of an axial texture and the reconstruction of the acuity parameter from a set of individual orientations

S97

Ivanova, Yu.S.; Savelova, T.I. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), e-mail: ivanova111993@mail.ru

Matematicheskoe modelirovanie aksial'noj tekstury i vosstanovlenie parametra ostrotы po naboru odnel'nykh orientirovok

p. 401-406

(RU)

12 refs., 7 figs., 2 tabs.

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**MATHEMATICS; ANALYTICAL SOLUTION; MATHEMATICAL SOLUTIONS;
MATHEMATICAL MODELS; COMPUTERIZED SIMULATION; MONTE CARLO
METHOD**

One of the methods of the reconstruction of the orientation distribution function and pole figures from a set of grain orientations is a method of approximating by a centered normal distribution on the rotation group $SO(3)$. The problem of the reconstruction of the acuity parameter of the axial texture from a set of the orientations for polycrystals has been emphasized. The axial component for the centered normal distribution has been studied

Одним из методов восстановления функции распределения ориентаций и полюсных фигур по набору ориентаций зерен является метод аппроксимации центральным нормальным распределением на группе вращений $SO(3)$. В данной работе рассматривается задача восстановления параметра остроты аксиальной текстуры по набору ориентировок для поликристаллов. Изучается аксиальная компонента для центрального нормального распределения

Stationary magnetohydrodynamic flows in curved coaxial channels

S70

Stepin, E.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), e-mail: styopin.evgeniy@gmail.com

Statsionarnye MGD-techeniya v koaksial'nykh kanalakh krivolinejnoj konfiguratsii

p. 407-420

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**PLASMA; PLASMA ACCELERATION; TRANSONIC FLOW; SUBSONIC FLOW;
PLASMA FLUID EQUATIONS; NUMERICAL SOLUTION**

The curvilinear geometry of the channel does not significantly affects the gas parameters. For sufficiently high inflow velocities, the velocity of the plasma and gas over the channel, both in the case of its curvilinear configuration and the configuration with the constant average radius, remains constant, and their other main parameters stop changing

В случае движения газа влияние криволинейной геометрии практически отсутствует. Установлено, что при достаточно больших скоростях втекания скорость рабочего вещества (плазмы и газа) вдоль канала как в случае его криволинейной конфигурации, так и в случае конфигурации с постоянным средним радиусом стремится к постоянному по всей его длине значению, а распределения всех других параметров перестают меняться

On correct boundary conditions for the Asian option pricing problem

S97

Bogdanov, A.V.; Mareev, V.V.; Stepanov, Eh.A. (Sankt-Peterburgskij Gosudarstvennyj Univ., Sankt-Peterburg (RU)), e-mail: bogdanov@csa.ru, map@csa.ru, e.an.stepanov@gmail.com

K korrektnym granichnym usloviyam v zadachakh tsenoobrazovaniya aziatskogo optsona
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2 refs., 2 figs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; ANALYTICAL SOLUTION;
COMPUTERIZED SIMULATION; MATHEMATICAL MODELS; ECONOMICS;
BUSINESS; FORECASTING; PRICING REGULATIONS; BOUNDARY CONDITIONS;
ASIA

The problem of finding the price of the Asian option has been analyzed. The main goal is to construct a well-posed mathematical problem. Modified boundary conditions obtained by projecting the original equation on the boundary of the domain under consideration have been proposed

В данной статье рассмотрена проблема поиска цены азиатского опциона. Основная цель состоит в построении корректно поставленной математической задачи. Авторами были предложены модифицированные граничные условия, которые получены путем проецирования исходного уравнения на границу рассматриваемой области

Multiport CMOS memory cell based on the DICE trigger divided into two groups of transistors for a hardened 65-nm CMOS SRAM

S97

Katunin, Yu.V.; Stenin, V.Ya. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU); NII Sistemnykh Issledovaniy RAN, Moscow (RU)), e-mail: yu.v.katunin@gmail.com, vystenin@mephi.ru

Mnogoportovaya KMOP yachejka pamyati na osnove DICE triggera s razdelennymi na dve gruppy tranzistorami dlya pomexoustojchivykh 65-nm KMOP staticheskikh OZU

p. 432-439

(RU)

5 refs., 6 figs., 3 tabs.

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PHYSICS; MATHEMATICAL MODELS; MATHEMATICS; EQUATIONS; COMPUTER CODES; ACCURACY

The use of the new two groups of DICE trigger with the spacing between them more than 3 #Greek Small Letter Mu#m increases the soft-error immunity of the 65-nm multiport CMOS

memory. In the address decoders, in registers of data and control of a multiport SRAM, DICE triggers are used to improve immunity to the effects of single nuclear particles and combinational logic based on two-phase logic elements of mutually spaced pairs of sensitive transistors on a chip

Разработана топология ячейки памяти с увеличенным расстоянием в 3 мкм между чувствительными парами транзисторов двух групп, что существенно повысило помехоустойчивость к воздействиям одиночных ядерных частиц. В дешифраторах адреса, регистрах ввода-вывода данных и управления блока оперативного запоминающего устройства (ОЗУ) для повышения помехоустойчивости к действию ядерных частиц использованы триггеры DICE и комбинационная логика на основе двухфазных логических элементов с разнесением взаимно чувствительных пар транзисторов на кристалле микросхемы

Synchronization of Parallel processes on the basis of Petri's networks with operated transitions

S97

Krushnyj, V.V.; Sagajdachnaya, P.V. (Snezhinskij Fiziko-Tekhnicheskij Inst. NIYaU MIFI, Snezhinsk (RU)), e-mail: poli_nochka@mail.ru

Sinkhronizatsiya parallel'nykh protsessov na osnove setej Petri s upravlyaemymi perekhodami p. 440-446

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4 refs., 4 figs.

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MATHEMATICS; ANALYTICAL SOLUTION; MATHEMATICAL SOLUTIONS;
MATHEMATICAL MODELS; SIMULATION; DATA PROCESSING

Formal models of parallel processes have been considered on the basis of the mathematical theory of Petri's nets. Another simpler method has been proposed for introducing the time into the net formalism at the level of the external control. This method excludes the violation of the originally simple developed and laconic structure of the Petri's net

Рассматриваются формальные модели параллельных процессов на основе математической теории сетей Петри. Предложен другой, более простой, способ привнесения времени в формализм сети на уровне внешнего управления, исключающего нарушения изначально простой, красивой и лаконичной структуры сети Петри

Neural model of finite state automaton based on hysteresis microensembles

S97

Prostov, Yu.S.; Tyumentsev, Yu.V. (Moskovskij Aviatsionnyj Inst. (Natsional'nyj Issledovatel'skij Univ.), Moscow (RU)), e-mail: prostov.yury@yandex.ru

Nejrosetevaya model' konechnogo avtomata na osnove gisterezisnykh mikroansamblej p. 447-453

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**MATHEMATICS; ANALYTICAL SOLUTION; MATHEMATICAL SOLUTIONS;
MATHEMATICAL MODELS; COMPUTERIZED SIMULATION; AUTOMATION;
HYSTERESIS; NEURAL NETWORKS**

The artificial neural network approach for the implementation of a deterministic finite state automaton has been considered. The previously proposed model of the micro-ensemble has been used as a building block for the automaton. It has been shown that hysteresis dynamics of such a model provides the memorize property needed for a neural network implementing the automaton. In addition, a method for the transformation of any deterministic finite state automaton into a functionally equivalent neural network has been proposed

В работе рассматривается применение нейросетевого подхода для реализации детерминированного конечного автомата. При решении задачи была использована предложенная ранее модель микроансамбля, которая благодаря наличию эффекта гистерезиса обеспечивает необходимое свойство памяти в сети. Также в работе предложен метод построения нейронной сети, функционально эквивалентной заданному детерминированному конечному автомату

Simulation-analytic model of a distributed informational system

S97

Drevs, Yu.G.; Zen'kovich, M.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), e-mail: ydrevs@yandex.ru

Imitatsionno-analiticheskaya model' raspredelennoj informatsionnoj sistemy

p. 454-457

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6 refs., 1 fig.

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**MATHEMATICS; MATHEMATICAL SOLUTIONS; MATHEMATICAL MODELS;
COMPUTERIZED SIMULATION; SIMULATION; DISTRIBUTED DATA PROCESSING;
INFORMATION SYSTEMS**

A model for the choice of effective connection channels between elements of a distributed homomorphous network has been described. This model combines simulation and analytical approaches in its architecture. Arguments for using such complex models, examples of some simulation results for a system with distributed topology have been given and summarized conclusions have been made

Дано описание модели, предназначенной для выбора эффективных каналов связей между элементами распределенной гомоморфной сети, сочетающих имитационное и аналитическое исследование. Приводятся аргументы в пользу применения подобных

комплексных моделей, пример некоторых результатов моделирования сети с распределенной топологией и делаются обобщающие выводы

Use of simulation for planning the organization of the computational process on digital computing systems

S97

Shevchenko, N.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), e-mail: schandr2005@mail.ru

Ispol'zovanie imitatsionnogo modelirovaniya dlya planirovaniya organizatsii vychislitel'nogo protsessa na tsifrovyykh vychislitel'nykh sistemakh

p. 469-472

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MATHEMATICAL MODELS; ANALYTICAL SOLUTION; MATHEMATICAL SOLUTIONS; COMPUTERIZED SIMULATION; CYBERNETICS; COMPUTER CODES; DIGITAL SYSTEMS

The technique of choice for job processing on a given computer system structure in real time is proposed. These tasks are accomplished with limited and unlimited memory buffers by choosing subjects of dispatching and management of their use to specify the parameters of a set of objectives. The characteristics of the computational process have been calculated using the simulation program designed and drawn up in the GPSS

Предложена методика выбора дисциплин диспетчеризации и распределения ресурсов буферной памяти и производительности при решении заданной совокупности задач в реальном масштабе времени на вычислительной системе заданной структуры. Определение характеристик организации вычислительного процесса проводится с помощью спроектированной и разработанной на языке GPSS имитационной моделирующей программы

LXIV International conference NUCLEUS 2014. Fundamental problems of nuclear physics, atomic power engineering and nuclear technologies (LXIV Meeting on nuclear spectroscopy and nuclear structure). Book of abstracts S73;S21;S36;S46

Vlasnikov, A.K. (ed.)

Russian Academy of Sciences, Moscow (RU); Joint Inst. for Nuclear Research, Dubna (XJ); Saint-Petersburg State Univ., Saint-Petersburg (RU); Belarussian State Univ., Minsk (BY); Research Inst. for Nuclear Problems of Belarussian State Univ., Minsk (BY); National Academy of Sciences of Belarus, Minsk (BY)

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NUCLEAR STRUCTURE; NUCLEAR PROPERTIES; NUCLEAR REACTIONS; PHYSICAL RADIATION EFFECTS; RADIATION DETECTORS; SPECTROSCOPY; NUCLEAR ENGINEERING; REACTORS; LEADING ABSTRACT; MEETINGS

The scientific program of the conference covers almost all problems in nuclear physics and its applications in atomic power engineering and nuclear technologies. The recent results of experimental investigations of atomic nuclear structure and nuclear properties as well as nuclear reaction mechanisms are analyzed. The theoretical problems of atomic nuclei, fundamental interactions and nuclear reactions are considered. The new instrumentation and methods of nuclear-physical experiments are presented. The interaction of nuclear radiation with matter is discussed. The particular attention is given to fundamental problems of nuclear power engineering

Научная программа конференции охватывает практически все вопросы ядерной физики и ее применений в атомной энергетике и ядерных технологиях. Анализируются последние результаты экспериментальных исследований структуры и свойств атомного ядра, а также механизмов ядерных реакций. Рассматриваются вопросы теорий атомного ядра, фундаментальных взаимодействий и ядерных реакций. Представлены новые приборы и методы ядерно-физических экспериментов. Обсуждается взаимодействие ядерного излучения с веществом. Особое внимание уделяется фундаментальным проблемам атомной энергетике

High-energy nuclear optics of polarized particles

S73

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Properties of nuclei in the neighborhood of neutron and proton drip lines

S73

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Recently developed approaches to calculate nuclear structure need tests by novel experimental methods

S73

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NUCLEAR STRUCTURE; NUCLEON-NUCLEON INTERACTIONS; SCATTERING; RARE EARTH NUCLEI; THREE-BODY PROBLEM

Synthesis of heavy and superheavy nuclei in intensive neutron fluxes of explosive processes

S73;S79

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NUCLEOSYNTHESIS; R PROCESS; TRANSACTINIDE ELEMENTS; NEUTRON FLUX; SUPERNOVAE; NUCLEAR MODELS; THEORETICAL DATA

Dynamical effects' role in the formation of T-odd angular asymmetries of the products of ternary fission caused by polarized neutrons

S73

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Chernyshev, B.A.; Gurov, Yu.B.; Korotkova, L.Yu.; Lapushkin, S.V.; Pritula, R.V.; Sandukovskiy, V.G. (National Research Nuclear Univ. MEPhI, Moscow (RU)), e-mail:

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Morozov, V.A.; Morozova, N.V.; Norseev, Yu.V.; Chepigin, V.I. (Joint Inst. for Nuclear Research, Dubna (XJ)), e-mail: vmorozov@nusun.jinr.ru

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Neutron detector TETRA to reveal the β -decay properties of neutron rich nuclei in the vicinity of neutron closed shells $N=50$, $N=82$

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*Testov, D.; Penionzhkevich, Yu.; Smirnov, V.; Sokol, E. (Flerov Lab. of Nuclear Reactions,
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Artemenkov, D.A.; Kattabekov, R.R.; Mamatkulov, K.Z.; Zarubin, P.I. (Joint Inst. for Nuclear Research, Dubna (XJ)), e-mail: artemenkov@lhe.jinr.ru

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Galanina, L.I.; Konykhova, I.A.; Lebedev, V.M.; Orlova, N.V.; Spassky, A.V.; Zelenskaya, N.S. (Lomonosov Moscow State Univ., Skobeltsyn Inst. of Nuclear Physics, Moscow (RU)), e-mail: wg2@anna19.sinp.msu.ru; Artemov, S.V. (Inst. of Nuclear Physics AS RUz, Ulugbek, Tashkent (UZ))

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Bystritsky, V.M.; Krylov, A.R.; Philippov, A.V. (Joint Inst. for Nuclear Research, Dubna (XJ)), e-mail: bystvm@jinr.ru (and others)

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Balabekyan, A.R. (Yerevan State Univ., Yerevan (AM)), e-mail: balabekyanl@ysu.am; Demekhina, N.A. (Yerevan Physics Inst., Yerevan (AM)); Karapetyan, G.S. (Inst. de Fisika, Univ. de Sao Paulo, Sao Paulo (BR)); Drnoyan, D.R.; Zhemenik, V.I.; Adam, J.; Zavorka, L.; Solnyshkin, A.A.; Tsoupko-Sitnikov, V.M.; Khushvaktov, J. (Joint Inst. for Nuclear Research, Dubna (XJ))

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Gromova, E.; Jakovlev, V.A. (V.G. Khlopin Radium Inst., Saint-Petersburg (RU)), e-mail: jakovlev@khlopin.ru; Rubchenya, V.A. (V.G. Khlopin Radium Inst., Saint-Petersburg (RU)); Dept. of Physics, Univ. of Jyvaskyla, Jyvaskyla (FI); Faculty of Physics, Saint-Petersburg Univ., Saint-Petersburg (RU)); Aaltonen, J.; Helariutta, K.; Salminen-Paatero, S. (Dept. of Chemistry, Helsinki (FI)); Penttila, H.; Rissanen, J.; Saastamoinen, A. (Dept. of Physics, Univ. of Jyvaskyla, Jyvaskyla (FI))

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Duisebayev, A.; Duisebayev, B.A.; Zholdybayev, T.K.; Sadykov, B.M. (Inst. of Nuclear Physics, Almaty (KZ)), e-mail: sadykovbm@inp.kz

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Sakuta, S.B. (National Research Center Kurchatov Inst., Moscow (RU)), e-mail:

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Vishnevsky, I.N.; Zheltonozhsky, V.A.; Savrasov, A.N.; Rovenskikh, E.P.; Plujko, V.A.; Gorbachenko, O.M. (Inst. for Nuclear Research, Kyiv (UA)), e-mail: zhelton@kinr.kiev.ua

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Gridnev, K.A. (St. Petersburg State Univ., Saint-Petersburg (RU)); Dyachkov, V.V.; Yushkov, A.V. (IETP al-Farabi KazNU, Almaty (KZ)), e-mail: slava_kpss@mail.ru

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Erdemchimeg, B. (Joint Inst. for Nuclear Research, Dubna (XJ); Mongolian National Univ., NRC, Ulaanbaatar (MN)), e-mail: erd_mn@yahoo.com; Mikhailova, T.I.; Artyukh, A.G. (Joint Inst. for Nuclear Research, Dubna (XJ)); Toro, M. Di (Lab. Naz. del Sud (LNS), INFN, Catania (IT)); Sereda, G.Yu.M. (Joint Inst. for Nuclear Research, Dubna (XJ); Inst. for Nuclear Research NAS, Kyiv (UA)); Wolter, H.H. (Faculty of Physics, Univ. of Munich, Garching (DE))

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Kotov, D.O.; Berdnikov, Ya.A. (St. Petersburg State Polytechnical Univ., Saint-Petersburg (RU)), e-mail: dm_kotov@phmf.spbstu.ru; Samsonov, V.M. (St. Petersburg State Polytechnical Univ., Saint-Petersburg (RU)); Russian Research Center Kurchatov Inst., Petersburg Nuclear Physics Inst., Gatchina (RU)); Riabov, V.G.; Riabov, Yu.G.; Ivanishchev, D.A. (Russian Research Center Kurchatov Inst., Petersburg Nuclear Physics Inst., Gatchina (RU))

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Chernyshev, B.A.; Gurov, Yu.B.; Korotkova, L.Yu.; Lapushkin, S.V.; Leonova, T.I.; Pritula, R.V.; Schurenkova, T.D. (NRNU MEPhI, Moscow (RU)), e-mail: rvpritula@gmail.com

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S73

Fedotov, G.V.; Gothe, R.W. (Univ. of South Carolina, Columbia (US)); Burkert, V.D.; Mokeev, V.I. (Thomas Jefferson National Accelerator Facility, Newport News (US)); Ishkhanov, B.S. (Lomonosov Moscow State Univ., Skobeltsyn Inst. of Nuclear Physics, Moscow (RU)), e-mail: gleb@jlab.org

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Chesnokov, V.V.; Varlamov, V.V. (Skobeltsyn Inst. of Nuclear Physics, Lomonosov Moscow State Univ., Moscow (RU)); Burkert, V.D. (Thomas Jefferson National Accelerator Facility, Newport News (US)); Ishkhanov, B.S. (Skobeltsyn Inst. of Nuclear Physics, Lomonosov Moscow State Univ., Moscow (RU)); Faculty of Physics, Lomonosov Moscow State Univ., Moscow (RU)); Mokeev, V.I. (Skobeltsyn Inst. of Nuclear Physics, Lomonosov Moscow State Univ., Moscow (RU)); Thomas Jefferson National Accelerator Facility, Newport News (US)); Stepanov, M.E. (Faculty of Physics, Lomonosov Moscow State Univ., Moscow (RU)), e-mail: vitaly@jlab.org

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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.; Moiseev, V.I. (Thomas Jefferson National Accelerator Facility, Newport News (US)); Gothe, R.W.; Fedotov, G.V. (Univ. of South Carolina, Columbia, South Carolina (US)); Ishkhanov, B.S.; Skorodumina, Y.A. (Moscow State Univ., Physics Dept., Moscow (RU))

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Zevakov, S.A.; Golovin, R.A.; Gramolin, A.V. (Budker Inst. of Nuclear Physics of Siberian Branch Russian Academy of Sciences, Novosibirsk (RU)), e-mail: S.A.Zevakov@inp.nsk.su (and others)

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Bazarov, E.H.; Yuldashev, B.S.; Lutpullaev, S.L.; Olimov, K.; Petrov, V.I. (Physical Technical Inst. SPA Physics-Sun, Uzbek Academy of Sciences, Tashkent (UZ)), e-mail: olimov@uzsci.net

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Bezshyyko, O.A.; Golinka-Bezshyyko, L.O.; Kadenko, I.M.; Bezshyyko, Ia.O. (Taras Shevchenko National Univ. of Kyiv (UA)), e-mail: obezsh@gmail.com; Dovbnaya, A.M.; Olejnik, S.M.; Tuller, G.E.; Vodin, O.M. (National Science Center Kharkiv Inst. of Physics and Technology (NSC KIPT), Kharkiv (UA)); Kushnir, V.A.; Mitrochenko, V.V. (Research and Development Complex Accelerator of NSC KIPT, Kharkiv (UA))

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Bondarenko, I.P.; Khryachkov, V.A.; Khromyleva, T.A.; Semenova, N.N.; Sergachev, A.I. (State Scientific Center of the Russian Federation - Inst. for Physics and Power Engineering, Obninsk (RU)), e-mail: ibondarenko@ippe.ru

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Mazur, V.M.; Symochko, D.M.; Bigan, Z.M.; Derechkey, P.S. (Inst. of Electron Physics, Ukrainian National Academy of Sciences, Uzhhorod (UA)), e-mail: derecskei89@gmail.com

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Mazur, V.M.; Symochko, D.M.; Marinets, T.I.; Derechkey, P.S. (Inst. of Electron Physics, Ukrainian National Academy of Sciences, Uzhhorod (UA)), e-mail: derecskei89@gmail.com

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Belyshev, S.S.; Ishkhanov, B.S.; Kurilik, A.S. (Faculty of Physics, Lomonosov Moscow State Univ., Moscow (RU); Scobel'syn Inst. of Nuclear Physics, Moscow State Univ., Moscow (RU)), e-mail: belyshev@depni.sinp.msu.ru; Dzhilavyan, L.Z. (Inst. for Nuclear Research of the Russian Academy of Sciences, Moscow (RU)); Khankin, V.V.; Shvedunov, V.I. (Scobel'syn Inst. of Nuclear Physics, Moscow State Univ., Moscow (RU))

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Burtebaev, N.; Ivanov, I.A.; Amangeldy, N. (L.N. Gumilyov Eurasian National Univ., Astana (KZ); Inst. of Nuclear Physics, Astana (KZ)), e-mail: igor.ivanov.inp@gmail.com; Morzabaev, A.K. (L.N. Gumilyov Eurasian National Univ., Astana (KZ)); Hamada, Sh. (Tanta Univ., Tanta,

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Vompe, T.A.; Prosvirnin, V.V. (FGBUN Inst. Metallurgii i Materialovedeniya im. A.A. Bajkova RAN, Moscow (RU)), e-mail: tvompe@gmail.com; Mishin, V.V. (FGBOU VPO Sankt-Peterburgskij Gosudarstvennyj Politekhnikeskij Univ., Sankt-Peterburg (RU)), e-mail: m_v_v_m@mail.ru

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Ivanov, A.M.; Lukin, E.S.; Lepov, V.V.; Lebedev, M.P. (Inst. Fiziko-Tekhnicheskikh Problem Severa im. V.P. Larionova SO RAN, Yakutsk (RU)), e-mail: a.m.ivanov@iptpn.ysn.ru, lukin@iptpn.ysn.ru, lepov@iptpn.ysn.ru, administration@iptpn.ysn.ru

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Komshina, A.V. (Moskovskij Gosudarstvennyj Tekhnicheskij Univ. im. N.Eh. Baumana, Moscow (RU)); Korovushkin, V.V. (Natsional'nyj Issledovatel'skij Tekhnologicheskij Univ. MISiS, Moscow (RU)), e-mail: krvsch@mail.ru; Shipko, M.N. (Ivanovskij Filial Rossijskogo Ehkonomicheskogo Univ. im. G.V. Plekhanova, Ivanovo (RU)), e-mail: ivrgteu_nir@mail.ru; Kaminskaya, T.P. (Moskovskij Gosudarstvennyj Univ. im. M.V. Lomonosova, Moscow (RU)), e-mail: ktp53@mail.ru; Stepovich, M.A. (Kaluzhskij Gosudarstvennyj Univ. im. K.Eh. Tsiolkovskogo, Kaluga (RU); Finansovyy Univ. pri Pravitel'stve Rossijskoj Federatsii, Moscow

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Krymskij, S.V.; Basyrova, R.M.; Avtokratova, E.V.; Sitdikov, O.Sh.; Markushev, M.V.

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MICROSTRUCTURE; TEMPERATURE RANGE 0065-0273 K; SUPERCONDUCTIVITY

Structure and superconducting properties of tapes and coatings obtained by rolling and pressing of the HTSC compounds

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*Luk'yanova, E.A.; Rokhlin, L.L.; Dobatkina, T.V.; Tarytina, I.E. (Inst. Metallurgii i
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*Mukhametrakhimov, M.Kh. (FGBUN Inst. Problem Sverkhplastichnosti Metallov RAN, Ufa
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Rossiyskaya Akademiya Nauk, Moscow (RU); Federal'noe Gosudarstvennoe Byudzhetnoe Uchrezhdenie Nauki Inst. Metallurgii i Materialovedeniya im. A.A. Bajkova RAN, Moscow

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Rusakova, A.V.; Lubenets, S.V.; Fomenko, L.S.; Zabrodin, P.A. (Fiziko-Tekhnicheskij Inst. Nizkikh Temperatur im. B.I. Verkina NAN Ukrainy, Khar'kov (UA)), e-mail: rusakova@ilt.kharkov.ua

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Sarkeeva, A.A. (Inst. Problem Sverkhplastichnosti Metallov RAN, Ufa (RU)), e-mail: aigul-05@mail.ru

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Safarov, I.M.; Sergeev, S.N.; Korznikov, A.V.; Galeev, R.M. (FGBUN Inst. Problem Sverkhplastichnosti Metallov RAN, Ufa (RU)); Gladkovskij, S.V. (Inst. Mashinovedeniya UrO RAN, Ekaterinburg (RU)), e-mail: ilfat@anrb.ru

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tabachnikova@ilt.kharkov.ua; Ivanisenko, Yu.G.; Kurmanaeva, L. (Inst. fuer Nanotechnologie, Karlsruhe Inst. fuer Technologie (KIT), Karlsruhe (DE)); Chakh, K.; Mishkuf, J. (Inst. of Experimental Physics, Slovak Academy of Sciences, Kosice (SK))

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(RU)

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Vityaz', P.A. (Prezidium NAN Belarusi, Minsk (BY)); Ul'yanova, T.M. (Inst. Obshchej i Neorganicheskoj Khimii NAN Belarusi, Minsk (BY)), e-mail: ulya@igic.bas-net.by; Shevchenok, A.A.; Stepkin, M.O.; Titova, L.V. (Inst. Poroshkovej Metallurgii NAN Belarusi, Minsk (BY)), e-mail: alexshev56@mail.ru

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

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

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(RU)

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(RU)

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4 refs.

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(RU)

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(RU)

1 ref.

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2 refs.

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Chuvil'deev, V.N.; Nokhrin, A.V.; Boldin, M.S. (Nauchno-Issledovatel'skij Fiziko-Tekhnicheskij Inst. Nizhegorodskogo Gosudarstvennogo Univ. im. N.I. Lobachevskogo, Nizhnij Novgorod

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Development of cladding technology by blast of steel with heat resistant erosion protection steels

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Malakhov, A.Yu.; Pervukhin, L.B.; Sajkov, I.V. (FGBUN Inst. Strukturnoj Makrokinetiki i Problem Materialovedeniya, Chernogolovka (RU)), e-mail: Malahov-aspirant@yandex.ru; Vikhman, V.B. (OAO Tsentral'nyj Nauchno-Issledovatel'skij Inst. Materialov, Sankt-Peterburg (RU)), e-mail: info@cniim.com

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Martynov, S.A.; Balokhonov, R.R. (Inst. Fiziki Prochnosti i Materialovedeniya SO RAN, Tomsk (RU)), e-mail: martins88@sibmail.com

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Adhesion strength and structural-phase state of tantalum coatings and titanium nickelide surface layers

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Mejsner, L.L.; Gudimova, E.Yu.; Ostapenko, M.G.; Lotkov, A.I. (FGBUN Inst. Fiziki Prochnosti i Materialovedeniya SO RAN, Tomsk (RU)), e-mail: egu@ispms.tsc.ru

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Mejsner, L.L.; Mironov, Yu.P.; Lotkov, A.I. (FGBUN Inst. Fiziki Prochnosti i Materialovedeniya SO RAN, Tomsk (RU)), e-mail: llm@ispms.tsc.ru, myp@ispms.tsc.ru; Rotshtejn, V.P. (FGBUN Inst. Sil'notochnoj Ehlektroniki SO RAN, Tomsk (RU))

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Morozov, A.N.; Mikhajlichenko, A.I. (Rossijskij Khimiko-Tekhnologicheskij Univ. imeni D.I. Mendeleeva, Moscow (RU)), e-mail: smallevil.666@mail.ru

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Ostapenko, M.G.; Lotkov, A.I.; Gudimova, E.Yu. (FGBUN Inst. Fiziki Prochnosti i Materialovedeniya SO RAN, Tomsk (RU)), e-mail: artifakt@ispms.tsc.ru; Mejsner, L.L. (FGBUN Inst. Fiziki Prochnosti i Materialovedeniya SO RAN, Tomsk (RU); Natsional'nyj Issledovatel'skij Tomskij Gosudarstvennyj Univ., Tomsk (RU))

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Pavlov, M.D.; Komissarov, A.A.; Smirnova, Yu.V. (NITU MISiS, Moscow (RU)), e-mail: mkpavlovd@gmail.com

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Savenko, V.I.; Spitsyn, B.V. (Inst. Fizicheskoy Khimii i Ehlektrokhimii RAN, Moscow (RU)), e-mail: visavenko@rambler.ru

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Safaraliev, G.K.; Bilalov, B.A.; Kardashova, G.D. (Dagestanskij Gosudarstvennyj Tehnicheskij Univ., Makhachkala (RU)); Magomedova, Z.S. (Dagestanskij Gosudarstvennyj Univ., Makhachkala (RU))

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Sergeev, V.P.; Panin, V.E.; Nejjel'd, V.V.; Kalashnikov, M.P. (Inst. Fiziki Prochnosti i Materialovedeniya SO RAN, Tomsk (RU)), e-mail: vsereg@mail.tomsknet.ru; Rizakhanov, R.N.; Koroteev, A.S. (GNTs RF FGUP Issledovatel'skij Tsentr imeni M.V. Keldysha, Moscow (RU)), e-mail: kerc@elnet.msk.ru

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Sergeev, O.V.; Sergeev, V.P.; Fedorishcheva, M.V.; Kalashnikov, M.P.; Sungatulin, A.R. (Inst. Fiziki Prochnosti i Materialovedeniya SO RAN, Tomsk (RU)), e-mail: tehnovak@ispms.tsc.ru

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Influence of strengthening dispersed phases of nickel and titanium and nickel aluminides on mechanical properties of composite materials based on corundum and mullite

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Vliyanie sostava uprochnyayushchikh dispersnykh faz nikelya i alyuminidov nikelya i titana na mekhanicheskie svoystva kompozitsionnykh materialov na osnove korunda i mullita

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Nadutkin, A.V.; Istomin, P.V.; Grass, V.Eh. (Inst. Khimii Komi NTs UrO RAN, Syktyvkar (RU)), e-mail: nadutkin-av@chemi.komisc.ru

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Senyut', V.T.; Kovaleva, S.A.; Gamzeleva, T.V.; Khejfets, M.L. (OIM NAN Belarusi, Minsk (BY); IPM NAN Belarusi, Minsk (BY); Prezidium NAN Belarusi, Minsk (RU)), e-mail: vsenyut@tut.by, iscentr@tut.by, mlk-z@mail.ru

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Tkachenko, Yu.Yu. (Donbasskaya Gosudarstvennaya Mashinostroitel'naya Akademiya, Kramatorsk (UA)), e-mail: tkachenko1110@mail.ru

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Chernogorova, O.P.; Drozdova, E.I.; Potapova, I.N.; Dobatkin, S.V. (FGBU Inst. Metallurgii i Materialovedeniya im. A.A. Bajkova RAN, Moscow (RU)), e-mail: tchern@imet.ac.ru

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Shishkin, T.A.; Pervukhina, O.L.; Pervukhin, L.B. (FGBUN ISMAN RAN, Chernogolovka (RU)), e-mail: smaimbrik@mail.ru

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Shcherbina, O.B.; Efremov, V.V.; Palatnikov, M.N.; Sidorov, N.V. (Inst. Khimii i Tekhnologii Redkikh Ehlementov i Mineral'nogo Syr'ya im. I.V. Tananaeva Kol'skogo Nauchnogo Tsentra RAN, Apatity, Murmanskaya Obl. (RU)), e-mail: shcherbina@chemy.kolasc.net.ru; Pasichnyj, V.V. (Inst. Problem Materialovedeniya im. I.M. Frantsevicha, NANU, Kiev (UA))

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Soldatov, V.P.; Kirichenko, G.I.; Abraimov, V.V. (FTINT im. B.I. Verkina NANU, Khar'kov (UA)), e-mail: kyrychenko@ilt.kharkov.ua

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Bosin, M.E.; Russkin, V.M. (Khar'kovskaya Gumanitarno-Pedagogicheskaya Akademiya, Khar'kov (UA)), e-mail: bosin@yandex.ru

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Kalashnikov, I.E.; Bolotova, L.K.; Chernyshova, T.A. (FGBUN Inst. Metallurgii i Materialovedeniya im. A.A. Bajkova RAN, Moscow (RU)), e-mail: kalash2605@mail.ru

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Malenko, P.I. (FGBOU VPO Tul'skij Gosudarstvennyj Univ., Tula (RU)), e-mail: malenko@tsu.tula.ru

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2 refs.

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

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

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Effect of tribotechnical peculiarities in contacting surfaces interaction on cyclic lifetime of steel under fretting fatigue

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*Tsybanov, G.V.; Kurash, Yu.P. (Inst. Problem Prochnosti im. G.S. Pisarenko Natsional'noj
Akademii Nauk Ukrainy, Kiev (UA)), e-mail: g.v.tsybanov@ipp.kiev.ua, kurash@ipp.kiev.ua*

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Chernyshova, T.A.; Kobeleva, L.I.; Bolotova, L.K.; Katin, I.V. (IMET RAN, Moscow (RU)), e-mail: chern@imet.ac.ru

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

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Determination of cyclic corrosion crack resistance characteristics of an oil trunk line pipe material

S36

Luzhetsky, V. (Dept. of Machine Engineering and Material Study of Ivan Franko State Pedagogical Univ. of Drohobych, Drohobych (UA))

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3 refs., 1 fig.

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Biblik, I.V. (Inst. Problem Mashinostroeniya im. A.N. Podgornogo NAN Ukrainy, Khar'kov (UA)), e-mail: miles@ipmach.kharkov.ua

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

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S36

Bujnitskaya, Yu.F.; Doronin, S.V. (Spetsial'noe Konstruktorsko-Tekhnologicheskoe Byuro Nauka KNTs SO RAN, Krasnoyarsk (RU)), e-mail: julfila@rambler.ru

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(FGBUN Inst. Metallurgii i Materialovedeniya im. A.A. Bajkova RAN, Moscow (RU)), e-mail:
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7 refs., 1 tab.

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(EN)

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*Akhmedova, M.V. (Azerbajdzhanskij Tekhnicheskij Univ., Baku (AZ)), e-mail:
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*Akhunova, A.Kh. (FGBUN Inst. Problem Sverkhplastichnosti Metallov RAN, Ufa (RU)), e-mail:
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(RU)

5 refs.

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Balokhonov, R.R.; Romanova, V.A.; Shvab, E.A.; Kovalev, V.A.; Martynov, S.A. (Inst. Fiziki Prochnosti i Materialovedeniya SO RAN, Tomsk (RU)), e-mail: rusy@ispms.tsc.ru

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2 refs., 1 fig.

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Belov, A.Yu. (Inst. Kristallografii RAN, Moscow (RU)), e-mail: belov@crys.ras.ru

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(RU)

2 refs., 1 fig.

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Boltachev, G.Sh.; Volkov, N.B.; Nagaev, K.A. (Inst. Ehlektrofiziki UrO RAN, Ekaterinburg (RU)), e-mail: grey@iep.uran.ru

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Verkhovyykh, A.V.; Mirzoev, A.A. (FGBOU VPO Yuzhno-Ural'skij Gosudarstvennyj Univ. (Natsional'nyj Issledovatel'skij Univ.), Chelyabinsk (RU)), e-mail: ursaeva@physics.susu.ac.ru

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(RU)

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Volkonskij, M.V.; Mishin, V.M. (FGAOU VPO Severo-Kavkazskij Federal'nyj Univ., Stavropol' (RU)), e-mail: mishinvm@yandex.ru

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Gasanov, F.F. (Azerbajdzhanskij Tekhnicheskij Univ., Baku (AZ)), e-mail: HFF74@mail.ru

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Danilov, M.N.; Fedorova, N.N. (FGBOU VPO Novosibirskij Gosudarstvennyj Arkhitekturno-Stroitel'nyj Univ. (Sibstrin), Novosibirsk (RU)), e-mail: danilov-m-n@ya.ru

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Erofeev, V.I.; Nikitina, E.A. (Inst. Problem Mashinostroeniya RAN, Nizhnyj Novgorod (RU)), e-mail: erf04@sinn.ru; Miklashevich, I.A. (Natsional'nyj Tekhnicheskij Univ., Minsk (BY)), e-mail: dsmsm@bntu.by

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Zinov'ev, A.V.; Balokhonov, R.R. (*Inst. Fiziki Prochnosti i Materialovedeniya SO RAN, Tomsk (RU)*), e-mail: Kelast90@gmail.com

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Zinov'eva, O.S. (*Inst. Fiziki Prochnosti i Materialovedeniya SO RAN, Tomsk (RU)*); Natsional'nyj Issledovatel'skij Tomskij Gosudarstvennyj Univ., Tomsk (RU)); Romanova, V.A.; Zinov'ev, A.V. (*Inst. Fiziki Prochnosti i Materialovedeniya SO RAN, Tomsk (RU)*); Yastrebov, V.A. (*Tsentral'nyy Materialov Parizhskoj Gornoj Shkoly NTsNI, Parizh (FR)*), e-mail: emelyanova@ispms.tsc.ru

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Izotov, A.D. (Federal'noe Gosudarstvennoe Byudzhethnoe Uchrezhdenie Nauki Inst. Obshchej i Neorganicheskij Khimii im. N.S. Kurnakova RAN (IONKh RAN), Moscow (RU)), e-mail:

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Iskenderov, R.A. (Azerbajdzhanskij Arkhitekturno-Stroitel'nyj Univ., Baku (AZ)), e-mail: iske@mail.ru

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Karpinskij, D.N.; Sannikov, S.V. (Yuzhnyj Federal'nyj Univ., Rostov-na-Donu (RU)), e-mail: karp@math.rsu.ru

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*Molodets, A.M.; Kim, V.V.; Emel'yanov, A.N.; Golyshev, A.A. (Inst. Problem Khimicheskoy Fiziki
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3 refs., 5 figs.

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Muratova, E.N.; Muratov, A.A. (Sankt-Peterburgskij Gosudarstvennyj Ehlektrotekhnicheskij Univ. LEhTI, Sankt-Peterburg (RU)), e-mail: Sokolovaeknik@yandex.ru, Sanyamuratov@yandex.ru

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(RU)

4 refs.

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(RU)

4 refs., 1 tab.

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

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Romanova, V.A.; Balokhonov, R.R. (Inst. Fiziki Prochnosti i Materialovedeniya SO RAN, Tomsk (RU)), e-mail: varvara@ispms.tsc.ru; Batukhtina, E.E. (Natsional'nyj Issledovatel'skij Tomskij Gosudarstvennyj Univ., Tomsk (RU))

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Ruslantsev, A.N.; Dumanskij, A.M. (FGBUN Inst. Mashinovedeniya im. A.A. Blagonravova RAN, Moscow (RU)), e-mail: andreiruslantsev@gmail.com, alduman@rambler.ru

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(RU)

2 refs., 2 figs.

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Numerical modeling of pore space structure and deformation of brittle porous materials

S36;S97

*Smolin, I.Yu.; Eremin, M.O.; Makarov, P.V. (Inst. Fiziki Prochnosti i Materialovedeniya SO
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Ab-initio modeling of atomic structure and tensile properties of #beta#-alloys

Ti_{1-x}Zr_yNb_x

S36;S97

Timoshevskij, A.N.; Yablonovskij, S.O.; Ivasishin, O.M. (Inst. Metallofiziki NAN Ukrainy, Kiev (UA)), e-mail: tim@imag.kiev.ua

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(RU)

8 refs., 2 figs.

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958 p.

ELASTICITY; TITANIUM BASE ALLOYS; ZIRCONIUM ALLOYS; NIOBIUM ALLOYS; YOUNG MODULUS; COMPUTERIZED SIMULATION; TERNARY ALLOY SYSTEMS; BCC LATTICES; ELECTRON DENSITY

Ab-initio simulation of atomic structure and thermodynamic properties of binary austenitic alloys Fe-C and Fe-N

S36;S97

Timoshevskij, A.N.; Yablonovskij, S.O. (Inst. Metallofiziki NANU, Kiev (UA)), e-mail: tim@imag.kiev.ua

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Ab-initio modelirovanie atomnoj struktury i termodinamicheskikh svojstv binarnykh austenitnykh splavov Fe-C i Fe-N

p. 899-901

(RU)

3 refs., 3 figs.

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

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BINARY ALLOY SYSTEMS; IRON BASE ALLOYS; IRON NITRIDES; IRON CARBIDES; COMPUTERIZED SIMULATION; MONTE CARLO METHOD; INCLUSIONS; FCC LATTICES; TEMPERATURE DEPENDENCE

Applying of three-sublattice model for simulation of structural and thermodynamic properties for bcc-phase of Fe-Cr system

S36;S97

Udovskij, A.L.; Kupavtsev, M.V.; Vasil'ev, D.A. (FGBUN Inst. Metallurgii i Materialovedeniya im. A.A. Bajkova RAN, Moscow (RU)), e-mail: udovsky@imet.ac.ru, kmv@imet.ac.ru

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Primenenie trekhpodreshetchnoj modeli dlya modelirovaniya strukturnykh i termodinamicheskikh svoystv dlya OTsK-fazy sistemy Fe-Cr

p. 902-903

(RU)

6 refs., 2 figs.

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

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958 p.

BCC LATTICES; BINARY ALLOY SYSTEMS; IRON ALLOYS; MATHEMATICAL MODELS; FUNCTIONAL ANALYSIS; TEMPERATURE RANGE 0000-0013 K; THERMODYNAMIC PROPERTIES

Computer simulation of local delayed fracture

S36;S97

Shikhovtsov, A.N.; Mishin, V.M. (FGAOU VPO Severo-Kavkazskij Federal'nyj Univ., Stavropol' (RU)), e-mail: mishinvm@yandex.ru

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Komp'yuternoe modelirovanie lokal'nogo zamedlennogo razrusheniya stali

p. 906-908

(RU)

4 refs., 2 figs.

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

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958 p.

COMPUTERIZED SIMULATION; STRAINS; GRAIN BOUNDARIES; EMBRITTLEMENT; MICROSTRUCTURE; CHROMIUM-NICKEL STEELS; TUNGSTEN ALLOYS; PHOSPHORUS ADDITIONS

Advanced characterization of crystalline materials by combined EBSD and EDX

S36

Nolze, G. (Federal Inst. for Materials Research and Testing (BAM), Berlin (DE)), e-mail: gert.nolze@bam.de

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p. 910-912

(EN)

2 figs.

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BACKSCATTERING; SCANNING ELECTRON MICROSCOPY; X-RAY SPECTROSCOPY;
COPPER OXIDES; IRON OXIDES; LEAD OXIDES; COPPER; USES; MICROSTRUCTURE;
ORIENTATION

Physical-technical basics of radiation decomposition of carbonates

S73

Petrenko, V.V.; Alekseev, P.A. (Natsional'nyj Issledovatel'skij Tsentr Kurchatovskij Inst., Moscow (RU)), E-mail: viktpetrenko@yandex.ru

Fiziko-tehnicheskie osnovy radiatsionnogo razlozheniya karbonatov

p. 5-10

(RU)

22 refs., 1 fig.

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v. 3(1)

PHYSICS; CHEMICAL REACTIONS; DECOMPOSITION; RADIATION TRANSPORT;
INTERACTIONS

The analysis of traditional technologies of chemical production of lime and cement with the use of natural fuel as energy carrier has been given in this article. A conclusion is made, that present possibilities of improvement of these technologies has been exhausted

В статье приведен анализ традиционных технологий химического производства извести и цемента с использованием природного топлива как носителя энергии. Обосновывается вывод, что в настоящее время возможности усовершенствования соответствующих технологий уже исчерпаны

Integrated chemical-thermal and laser treatment of structural and tool steels

S36

Mishakov, G.A.; Rodionov, A.I.; Myasnikov, A.M. (Dzerzhinskij Politehnicheskij Inst. (Filial) Nizhegorodskogo Gosudarstvennogo Tekhnicheskogo Univ. im. R.E. Alekseeva, Nizhnij Novgorod (RU)), E-mail: mam030941@yandex.ru

Kompleksnaya khimiko-termicheskaya i lazernaya obrabotka konstruktsionnykh i instrumental'nykh stalej

p. 11-16

(RU)

10 refs., 8 figs., 1 tab.

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v. 3(1)

METALS; ALLOYS; STEELS; SURFACE TREATMENTS; METALLOGRAPHY; SURFACE FINISHING

Using the techniques of autoradiography, radiography, metallography and micro hardness measurement, the distribution of boron and the surface hardening of structural and tool steels under complex chemical, thermal and laser treatment have been investigated

Используя методы автордиографии, рентгенографии, металлографии и измерения микротвердости, исследовано распределение бора и упрочнение поверхности конструкционных и инструментальных сталей при комплексной химико-термической и лазерной обработке и лазерной наплавке

Rapid method of sintering of oxide functional ceramics

S36

Kerbel', B.M. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), E-mail: BMKerbel@mephi.ru; Katsnel'son, L.M. (OOO NPP Tekhnologika, Rostov-na-Donu (RU))

Skorostnoj metod spekaniya oksidnoj funktsional'noj keramiki

p. 17-23

(RU)

7 refs., 6 figs.

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METALS; ALLOYS; CERAMICS; OXIDES; SINTERING; SINTERED MATERIALS

In this study the rapid method for oxide functional ceramics sintering (RMOCS) has been presented. Some experimental results regarding the zirconate-lead titanate (PZT) piezoceramics sintering has been discussed. It is shown that the RMOCS is the most effective method to increase the probability of optimizing the homogeneity of sintered samples final microstructure

На примере пьезоматериала на основе цирконата-титаната-свинца (ЦТС) обсуждаются экспериментальные результаты скоростного метода спекания (СКС) оксидных функциональных материалов. Показано, что методы СКС относятся к числу наиболее эффективных методов повышения вероятности оптимизации уровня однородности конечной микроструктуры образцов

Computation of the regularized sums containing zeros of the errors integral

S97

Sherstyukov, V.B.; Sumin, E.V.; Tishchenko, M.M. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: shervb73@gmail.com, sumevbir@gmail.com, mtisch@mail.ru

Vychislenie #Left Double Quotation Mark#regulyarizovannykh#Right Double Quotation Mark#summ, sostavlennykh po nulyam integrala oshibok

p. 24-26

(RU)

4 refs.

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v. 3(1)

MATHEMATICS; MATHEMATICAL SOLUTIONS; LAPLACE TRANSFORMATION; INTEGRALS; DIAGRAMS; FUNCTIONS

The possibilities of a general method have been illustrated by the example of the error integral, which zeros can be found only approximately on the base of well known asymptotic formulas. New recurrence relations, allowing us to find the exact values of regularized amounts drawn on error integral zeros, have been pointed out

Возможности общего метода демонстрируются на примере интеграла ошибок, нули которого можно отыскивать лишь приближенно на основании известных асимптотических формул. Указаны новые рекуррентные соотношения, позволяющие находить точные значения #Left Double Quotation Mark#регуляризованных#Right Double Quotation Mark# сумм, составленных по нулям интеграла ошибок

Smoothing individual orientations for the central normal distribution on the group SO(3) by different kernels

S97

Aistova, Yu.M.; Savelova, T.I. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: yulaaistova@yandex.ru

Sglazhivanie ot del'nykh orientirovok dlya tsentral'nogo normal'nogo raspredeleniya na gruppe SO(3) razlichnymi yadrami

p. 27-30

(RU)

4 refs., 2 figs., 3 tabs.

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v. 3(1)

MATHEMATICS; MATHEMATICAL MODELS; MONTE CARLO METHOD; INTEGRAL EQUATIONS; ROSENBLUTH FORMULA; FOURIER ANALYSIS

An analytical research and numerical experiments at smoothing orientations have been carried out. Individual orientations have been obtained by numerical simulation of the central normal distribution on the group SO (3) using Monte Carlo method

Проводятся аналитическое исследование и численные эксперименты при сглаживании ориентировок. Отдельные ориентировки получены путем численного моделирования методом Монте-Карло центрального нормального распределения на группе SO(3)

Statistical simulation of periodical structure formation on surfaces of plane targets undergoing ion-beam sputtering

S97

Kudryashov, N.A.; Skachkov, M.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: MVSkachkov@mephi.ru

Statisticheskoe modelirovanie obrazovaniya periodicheskikh struktur pri raspylenii poverkhnosti ploskoj podlozhki potokom ionov

p. 31-39

(RU)

9 refs., 14 figs.

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v. 3(1)

MATHEMATICS; MATHEMATICAL MODELS; COMPUTERIZED SIMULATION;
MONTE CARLO METHOD; CALCULATION METHODS; QUANTUM DOTS

Numerical analysis of periodical structure formation on surfaces of plane targets undergoing ion-beam sputtering has been carried out. The base of the mathematical model of target ion-sputtering is the nonlinear evolutionary equation, in which the erosion velocity dependence on ion-flux is simulated by means of Monte Carlo method

Проводится численный анализ образования периодических структур при распылении поверхности плоской подложки потоком ионов. Основу математической модели ионного распыления подложки составляет нелинейное эволюционное уравнение, в котором зависимость скорости эрозии от потока ионов моделируется методом Монте-Карло

Numerical model of the formation of the quasi-equilibrium of a plasma in the magnetic field of Galateya traps

S97

Brushlinskij, K.V.; Chmykhova, N.A. (Inst. Prikladnoj Matematiki im. M.V. Keldysha RAN, Moscow (RU)), E-mail: Natalia.Chmykhova@gmail.com

Chislennaya model' formirovaniya kvaziravnovesiya plazmy v magnitnom pole lovushek-galatej p. 40-52

(RU)

25 refs., 4 figs.

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v. 3(1)

MATHEMATICAL SOLUTIONS; NUMERICAL SOLUTION; CALCULATION METHODS;
EQUATIONS; MAGNETOHYDRODYNAMICS; PLASMA INSTABILITY

A plasma dynamic model of a straightened analogue of #Left Double Quotation Mark#Galateya-belt#Right Double Quotation Mark# magnetic trap with immersed in a plasma cylinder of two current-carrying conductors has been presented. It is shown that in the stable equilibrium configurations of plasma and a magnetic field, the conductors may not be insulated from the hot plasma

Представлена плазмодинамическая модель распрямленного аналога магнитной ловушки #Left Double Quotation Mark#Галатеея-пояс#Right Double Quotation Mark# с погруженными в плазменный цилиндр двумя токонесущими проводниками. Показано, что в строго равновесных конфигурациях плазмы и магнитного поля проводники не могут быть изолированными от горячей плазмы

The signal of parameters modeling of a virtual welded process

S97

Krivin, V.V.; Vinichenko, S.M.; Ishigov, I.O.; Tolstov, V.A.; Ermolaeva, N.V. (Volgodonskij Inzhenerno-Tekhnicheskij Inst. NIYaU MIFI, Volgodonsk (RU)), E-mail: VVKrivin@mephi.ru
Modelirovanie signalov parametrov virtual'nogo svarochnogo protsessa

p. 53-57

(RU)

7 refs., 4 figs., 6 tabs.

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v. 3(1)

**MATHEMATICS; MATHEMATICAL MODELS; CALCULATION METHODS;
COMPUTERIZED SIMULATION; PROBABILITY; VIRTUAL STATES**

The functioning of multimedia training system is based on the modeling of welding. It is necessary to know the reliability of calculated values. The article describes an approach to construction of limitations for the parameters of the virtual welding process

Работа мультимедийного тренажера основана на моделировании сварочного процесса. При этом необходимо знать, насколько достоверны значения рассчитанных величин. В статье описан подход к построению ограничений для параметров состояния виртуального сварочного процесса

Matrix of response functions for xenon gamma-ray detector

S97

Shustov, A.E.; Vlasik, K.F.; Grachev, V.M.; Dmitrenko, V.V.; Novikov, A.S.; P'ya, S.N.; Ulin, S.E.; Uteshev, Z.M.; Chernysheva, I.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: smplra@gmail.com

Matritsa pribornykh funktsij ksenonovogo gamma-detektora

p. 58-62

(RU)

5 refs., 7 figs., 2 tabs.

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**MATHEMATICS; MATHEMATICAL SOLUTIONS; MATHEMATICAL MODELS; MONTE
CARLO METHOD; RESPONSE MATRIX METHOD; GAMMA SPECTROMETERS**

An approach of creation of response matrix using simulation GEANT4 gamma-ray Monte-Carlo method has been described for gamma-ray spectrometer based on high pressure xenon impulse ionization chamber with a shielding grid

Описан способ получения матрицы приборных функций гамма-спектрометра на основе импульсной ионизационной камеры с экранирующей сеткой, наполненной сжатым ксеноном, с помощью моделирования гамма-спектров методом Монте-Карло с использованием пакета библиотек GEANT4

Analysis of production mode influence on the potential barrier height of the Me/(SiC)_(1-x)(AlN)_x structures

S36

Safaraliev, G.K.; Kargin, N.I.; Gusev, A.S. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)); Kurbanov, M.K.; Ramazanov, Sh.M. (Dagestanskij Gosudarstvennyj Univ., Makhachkala (RU)); Bilalov, B.A. (Dagestanskij Gosudarstvennyj Tekhnicheskij Univ., Makhachkala (RU)), E-mail: bil-bilal@yandex.ru

Issledovanie vliyaniya parametrov rezhimov obrabotki na vysotu potentsial'nogo bar'era struktury Me/(SiC)_(1-x)(AlN)_x

p. 63-67

(RU)

6 refs., 5 figs., 4 tabs.

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METALS; CARBIDES; SILICON CARBIDES; NITRIDES; ALUMINIUM NITRIDES; SCHOTTKY EFFECT; SOLID SOLUTIONS

Experimental measurements of potential barrier in Me/(SiC)_(1-x)(AlN)_x structures have been presented in the paper. The authors have found that the height of the barrier depends not only on metal type, solid solution film composition and doping level, but also on the way the surface is treated before metallization, that determines the density surface states

В статье представлены результаты измерений высоты потенциального барьера в структурах Me/(SiC)_(1-x)(AlN)_x. Установлено, что высота барьера зависит не только от типа металла, состава пленки твердого раствора, степени легирования, но и от способа обработки поверхности перед металлизацией, определяющей плотность поверхностных состояний

Effects of irradiation on device characteristics of transistor structures based on AlGaN/GaN

S61

Kargin, N.I.; Gromov, D.V.; Kuznetsov, A.L.; Grekhov, M.M. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: krgn@yandex.ru

Vliyanie oblucheniya na pribornye kharakteristiki tranzistornykh struktur na osnove AlGaN/GaN

p. 68-70

(RU)

1 ref., 3 figs.

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v. 3(1)

IRRADIATION; RADIATION CHEMISTRY; RADIATION PROTECTION; TRANSISTORS; NEUTRONS

A technologic scheme was developed, and transistor structures, based on hetero-structures AlGaIn/GaN, were made. Current-voltage characteristics of the transistor structures and current-amplification and power-amplification cutoff frequencies have been presented in the paper

Разработана технологическая схема и изготовлены транзисторные структуры на основе гетероструктур AlGaIn/GaN. Измерены вольт-амперные характеристики (ВАХ) транзисторных структур, а также предельная частота усиления по току и предельная частота усиления по мощности

Microwave channel of a 40-MeV electron linear accelerator

S73

Zavadtsev, A.A.; Zavadtsev, D.A. (OOO NANO INVEST, Moscow (RU)); Nikol'skij, K.I.; Savin, E.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)); Smirnov, A.Yu. (OOO NANO INVEST, Moscow (RU)); Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: es-abyss@yandex.ru

Vysokochastotnyj trakt linejnogo uskoritelya ehlektronov na 40 MehV

p. 71-77

(RU)

2 refs., 13 figs., 1 tab.

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PHYSICS; ACCELERATORS; LINEAR ACCELERATORS; ELECTRONS; ELEMENTARY PARTICLES; ELECTRONIC EQUIPMENT

The RELUS-6, electron linear accelerator for an energy of 40 MeV microwave supply system for four standing-wave accelerating sections, and a pulsed current of 100 mA, have been developed with the microwave channel including a strip bridge, a phase shifter, a directional coupler, a waveguide bridge, and a waveguide water load

Разработана система СВЧ питания четырех бипериодических ускоряющих секций со стоячей волной линейного ускорителя электронов РЭЛУС-6 на энергию 40 МэВ и импульсный ток 100 мА, а также устройства входящего в нее СВЧ тракта: полосковый мост, фазосдвигатель, направленный ответвитель, волноводный мост и волноводная водяная нагрузка

Analysis of high-frequency deflectors based on the traveling and standing waves

S43

Smirnov, A.Yu.; Adon'ev, O.A.; Binyukov, P.V.; Matsievskij, S.V.; Savin, E.A.; Sobenin, N.P. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)); Zavadtsev, A.A. (OOO NANO INVEST, Moscow (RU)), E-mail: aysmv@yandex.ru

Analiz vysokochastotnykh deflektorov na begushchej i stoyachej volnakh

p. 78-84

(RU)

5 refs., 7 figs., 5 tabs.

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PHYSICS; PARTICLE BEAMS; BEAM PULSERS; ELECTRODYNAMICS; TRAVELLING WAVES

The main definitions of the electrodynamic characteristics of high-frequency deflecting structures used to manipulate the position of particles of an accelerated beam in six-dimensional phase space have been presented. Techniques for the design and adjustment of high-frequency deflectors based on the standing (resonance) and traveling waves using modern three-dimensional numerical simulation codes have been described

Приведены основные определения электродинамических характеристик высокочастотных отклоняющих структур, используемых для манипуляций положением частиц ускоренного пучка в шестимерном фазовом пространстве. Описаны методики проектирования и настройки ВЧ дефлекторов на стоячей (резонансные) и бегущей волнах с помощью современных трехмерных программ численного моделирования

Radiolysis of the coolant and methods to ensure protection of boiling-water reactors explosion

S21

Kurskij, A.S. (OAO VNIINM im. A.A. Bochvara, Moscow (RU)), E-mail:

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Radioliz teplonositelya i metody obespecheniya vzryvozaschishchennosti korpusnogo kipyashchego reaktora

p. 85-90

(RU)

4 refs., 4 figs., 3 tabs.

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POWER REACTORS; BWR TYPE REACTORS; RADIOLYSIS; COOLANTS; REACTOR COOLING SYSTEMS; VK-50 REACTOR

The article describes the radiolysis processes in the boiling reactor VK-50 with natural circulation of coolant. The article also describes the features of the catalytic combustion systems at possible accidents

Представленная работа посвящена описанию результатов исследований радиолитических процессов корпусного кипящего реактора ВК-50 с естественной циркуляцией теплоносителя, особенностям работы систем каталитического сжигания водорода в условиях повышенной влажности парогазовой смеси при авариях

The development of the integral version of the neutron resonance transmission analysis to solve the problem of estimating fissile elements in spent nuclear assemblies

S12

Mitskevich, A.V.; Korovin, Yu.A.; Dogov, A.A. (Obninskij Inst. Atomnoj Ehnergetiki NIYaU MIFI, Obninsk (RU)), E-mail: Aleksandr_M@tut.by

Razrabotka integral'nogo varianta nejtronnogo spektral'nogo analiza dlya otsenki sodержaniya delyashchiksya ehlementov v otrabotavshikh toplivnykh sborkakh

p. 91-96

(RU)

9 refs., 7 figs.

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WASTE MANAGEMENT; WASTE PROCESSING; SPENT FUEL ELEMENTS; SPENT FUELS; FUEL ASSEMBLIES; FISSILE MATERIALS

The paper describes the development of the integral version of the neutron resonance transmission analysis (NRTA) to solve the problem of estimating fissile elements in spent nuclear fuel. Using mathematical modeling involving the ENDF/B5 nuclear data library, the range of material thickness has been identified for which the technique is the most effective one

Статья посвящена разработке интегрального варианта нейтронного спектрального анализа (НСА) для решения задачи оценки делящихся элементов в отработавшем ядерном топливе. Используя математическое моделирование с привлечением оцененных ядерных данных библиотеки ENDF/B5, определена область толщин исследуемого материала, для которых методика наиболее эффективна

Treatment of uranium-thorium fuel at its production stage

S11

Girchenko, A.A.; Kudryavtsev, E.M.; Shchepelev, R.M. (OAO Vedushchij Nauchno-Issledovatel'skij Inst. Khimicheskoy Tekhnologii, Moscow (RU)), E-mail: shchepelev@bk.ru

Obrashchenie s uran-torievym toplivom na stadii ego izgotovleniya

p. 97-100

(RU)

4 refs., 4 figs.

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FUEL CYCLE; THORIUM CYCLE; URANIUM 232; URANIUM 233; MANUFACTURING

The possibility of removing ^{232}U at the stage of obtaining ^{233}U for the convenience of processing and reducing radiation dose has been analyzed in the paper. This problem is solved by the technology of obtaining ^{233}U in extracted neutron beams in cold channels of a reactor. This technology will allow the acceleration of the implementation of the uranium-thorium fuel cycle in the current reactor technologies

В статье уделено внимание вопросу о возможности избавиться от ^{232}U еще на стадии получения ^{233}U для удобства обработки и снижения дозовых нагрузок. Это решается внедрением технологии получения ^{233}U на выведенных нейтронных пучках в холодных каналах реактора. Такая технология позволит ускорить реализацию уран-ториевого топливного цикла на реакторных технологиях сегодняшнего дня

Using pseudo-random number generator for making iterative algorithms of hashing data

S97

Ivanov, M.A.; Vasil'ev, N.P.; Kozyrskij, B.L. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: MAIvanov@mephi.ru (and others)

Ispol'zovanie generatorov psevdosluchajnykh chisel pri postroenii iterativnykh algoritmov
p. 101-106

(RU)

8 refs., 4 figs.

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INFORMATION; INFORMATION SYSTEMS; CRYPTOGRAPHY; COMPUTER CODES;
MATHEMATICAL SOLUTIONS; ALGORITHMS

The method of stochastic data transformation made for usage in cryptographic methods of information protection has been analyzed. The authors prove the usage of cryptographically strong pseudo-random number generators as a basis for Sponge construction. This means that the analysis of the quality of the known methods and tools for assessing the statistical security of pseudo-random number generators can be used effectively

Анализируется способ стохастического преобразования данных, ориентированный на использование в задачах криптографической защиты информации. Обосновывается, что в основе архитектуры построения симметричных криптографических примитивов Sponge лежит качественный генератор псевдослучайных чисел (ГПСЧ). А это означает, что при анализе их качества могут эффективно применяться известные методы и средства оценки статистической безопасности ГПСЧ

Reducing the memory size in the study of statistical properties of the pseudo-random number generators, focused on solving problems of cryptographic information protection

S97

Chugunkov, I.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: IVChugunkov@mephi.ru

Voprosy sokrashcheniya ob'ema pamyati pri issledovanii statisticheskikh svojstv generatorov psevdosluchajnykh chisel, orientirovannykh na reshenie zadach kriptograficheskoy zashchity informatsii

p. 107-111

(RU)

10 refs.

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INFORMATION SYSTEMS; CRYPTOGRAPHY; COMPUTER CODES; MATHEMATICAL
SOLUTIONS; ALGORITHMS; PROGRAMMING

The report contains the description of an approach based on calculation of missing sets quantity, which allows to reduce memory usage needed for implementation of statistical tests. Information about estimation procedure of test statistics derived as a result of using this approach is also provided

Рассматриваются вопросы уменьшения объема памяти, необходимой для реализации статистических тестов, применяемых для оценки качества генераторов псевдослучайных чисел. Приводится описание подхода, основанного на вычислении числа отсутствующих наборов и позволяющего уменьшить объем памяти, требуемой для реализации тестов. Также предлагается методика оценки тестовых статистик, полученных в результате применения данного подхода

On methods to increase the security of the Linux kernel

S97

Matvejchikov, I.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: matvejchikov@gmail.com

О методиках повышения защищенности ядра Linux

р. 112-118

(RU)

15 refs., 3 figs.

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COMPUTERS; SAFETY; SECURITY; PROGRAMMING; COMPUTER CODES;
ALGORITHMS

Methods to increase the security of the Linux kernel for the implementation of imposed protection tools have been examined. The methods of incorporation into various subsystems of the kernel on the x86 architecture have been described

Рассматриваются методы повышения защищенности ядра Linux, нацеленные на реализацию наложенных средств защиты. Описаны методы встраивания в различные подсистемы ядра на архитектуре x86

Construction of a decision tree in linear programming problems

S97

Kokuev, A.A.; Ktitrov, S.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: AAKokuyev@mephi.ru

Postroenie dereva reshenij v zadachakh linejnogo programmirovaniya

р. 119-124

(RU)

11 refs., 3 figs., 1 tab.

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v. 3(1)

COMPUTERS; PROGRAMMING; LINEAR PROGRAMMING; MATHEMATICAL MODELS; DECISION TREE ANALYSIS; COMPUTER CODES

The dependence of the solution of a linear programming problem on its parameter has been analyzed. An algorithm for the construction of a decision tree has been proposed with the use of the simplex method together with the validity support system

Рассматривается вопрос зависимости решения задачи линейного программирования от ее параметров. Предлагается алгоритм построения дерева решений, для чего используется симплекс-метод совместно с системой поддержки истинности

Approximation of the monoenergetic photons efficiency registration for semiconductor germanium detectors

S72

Demin, V.M.; Zvantsev, A.A.; Mogilenets, N.N.; Troshin, V.S.; Hussein, Yu.N. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: aazvantsev@mephi.ru

Аппроксимация эффективности регистрации моноэнергетических фотонов для полупроводниковых германиевых детекторов

p. 133-136

(RU)

2 refs., 4 figs., 3 tabs.

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v. 3(2)

PHYSICS; ELEMENTARY PARTICLES; PHOTONS; EQUIVALENT-PHOTON APPROXIMATION; SEMICONDUCTOR DETECTORS

The some methods of approximation of the full-energy peak efficiency of mono-energetic photons are considered. Polynomial approximation and a combination of polynomial approximation and analytical functions are used. Examples are given for the approximation of coaxial and planar detectors ORTEC and CANBERRA firms

Рассматриваются некоторые методы аппроксимации эффективности регистрации фотонов в пиках полного поглощения от моноэнергетических фотонов. Используется полиномиальная аппроксимация и сочетания полиномиальной аппроксимации и аналитической функции. Приводятся примеры аппроксимации для коаксиальных и планарных детекторов фирмы ORTEC и CANBERRA

Extraordinary energy production after collision of metallic projectile with solid target

S75

Kalashnikov, N.P.; Ol'chak, A.S. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: kalash@mephi.ru

Экзотермическое взаимодействие металлического снаряда с твердой преградой при высоких скоростях

p. 137-140

(RU)

8 refs., 3 tabs.

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v. 3(2)

PHYSICS; MAGNETIC FIELDS; HIGH ENERGY PHYSICS; HEAT PRODUCTION;
OXIDATION

Production of additional energy in collision of metallic projectile with solid target is considered. It is shown that when the projectile speed exceeds certain threshold, the heat energy after collision may sufficiently exceed the kinetic energy of the projectile

Рассматривается механизм выделения дополнительной энергии при соударении металлических объектов (снарядов) с твердой преградой. Показывается, что тепловая энергия, выделяемая после удара, может существенно превышать кинетическую энергию металлического снаряда, если он движется со скоростью, превышающей некоторую пороговую

Exact solutions to nonlinear delay reaction-diffusion equations of hyperbolic type S97

Polyanin, A.D. (Inst. Problem Mekhaniki im. A.Yu. Ishlinskogo RAN, Moscow (RU); Moskovskij Gosudarstvennyj Tekhnicheskij Univ. im. N.Eh. Baumana, Moscow (RU)), E-mail:

polyanin@ipmnet.ru; Sorokin, V.G. (Moskovskij Gosudarstvennyj Tekhnicheskij Univ. im. N.Eh. Baumana, Moscow (RU))

Tochnye resheniya nelinejnykh reakcionno-diffuzionnykh uravnenij giperbolicheskogo tipa s zapazdyvaniem

p. 141-148

(RU)

27 refs., 1 tab.

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v. 3(2)

MATHEMATICS; MATHEMATICAL MODELS; EQUATIONS; MATHEMATICAL
SOLUTIONS; EXACT SOLUTIONS; ANALYTICAL SOLUTION

Authors present periodic and antiperiodic solutions, composite solutions resulting from a nonlinear superposition of generalized separable and traveling wave solutions, and others. Some results are extended to nonlinear delay reaction-diffusion equations with time-varying delay

В работе описаны некоторые точные решения более сложных нелинейных уравнений, в которых запаздывание произвольным образом зависит от времени. Приведенные решения содержат свободные параметры и могут быть использованы для решения некоторых задач и тестирования приближенных аналитических и численных методов решения аналогичных и более сложных нелинейных дифференциально-разностных уравнений

Non-linear dynamics of 1d disturbances in the gravity field

S71

Bajdulov, V.G. (Inst. Problem Mekhaniki im. A.Yu. Ishlinskogo RAN, Moscow (RU)), E-mail: bayd@ipmnet.ru; Shcherbachev, O.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: shcherbach@yandex.ru

Nelinejnaya dinamika odnomernykh vozmushchenij v pole sily tyazhesti

p. 149-157

(RU)

8 refs., 3 figs.

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PHYSICS; ELEMENTARY PARTICLES; VISCOSITY; GRAVITATION; GRAVITY SURVEYS; DYNAMICS; COLLISIONS

Methods of local expansions are used to analyze the influence of dissipation effects on the structure of gaps. It is shown that the gage of the gap is determined by the composition of the kinetic coefficients of viscosity and diffusion, and considering dissipation of only one type, although does not remove the gap, changes view of profiles of hydrodynamic variables at the time of the collapse

Методами локальных разложений проанализировано влияние эффектов диссипации на структуру разрывов. Показано, что толщина разрыва определяется произведением кинетических коэффициентов вязкости и диффузии, а учет диссипации только одного вида, хотя и не приводит к устранению разрыва, меняет вид профилей гидродинамических переменных в момент обрушения

Influence of ferromagnetic defects on magnetization processes in layered HTSC S97

Kashurnikov, V.A.; Maksimova, A.N. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: nastymaksimova@yandex.ru; Rudnev, I.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)); Mezhdunarodnaya Lab. Sil'nykh Magnitnykh Polej i Nizkikh Temperatur, Vroslav (PL))

Vliyanie ferromagnitnykh primesej na protsessy peremagnichivaniya v sloistykh sverkhprovodnikakh vtorogo roda

p. 158-166

(RU)

42 refs., 9 figs.

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MATHEMATICS; MATHEMATICAL MODELS; EQUATIONS; FUNCTIONS; CALCULATION METHODS; MONTE CARLO METHOD

The magnetization reversal loops were calculated by using Monte-Carlo method for various FMD concentration. Orientation of ferromagnetic nanoparticles' easy axis and values of magnetic anisotropy parameter were taken into account. It was demonstrated that the linear size of defect doesn't influence on the magnitude of remanent magnetization in the case when the elongated defects are parallel to the direction of vortex entrance

Методом Монте-Карло рассчитаны петли перемагничивания с учетом ансамбля ферромагнитных частиц при различной ориентации их осей легкого намагничивания относительно направления внешнего поля и при различной величине энергии магнитной анизотропии. Показано, что при ориентации протяженных дефектов параллельно направлению входа вихрей в образец длина дефекта не сказывается на величине остаточной намагниченности

The study of eccentric vibrator

S97

Bajdyusenov, B.B.; Gerasimov, S.I. (Sarovskij Fiziko-Tekhnicheskij Inst. NIYaU MIFI, Sarov (RU); FGUP RFYaTs VNII Eksperimental'noj Fiziki, Sarov (RU)), E-mail:

s.i.gerasimov@mail.ru; Pisetskij, V.V.; Filippov, V.K. (Sarovskij Fiziko-tekhnicheskij Inst. NIYaU MIFI, Sarov (RU))

Issledovanie ehkstsentrikovogo vibratora

p. 167-171

(RU)

2 refs., 5 figs.

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MATHEMATICS; MATHEMATICAL MODELS; EQUATIONS; SIMULATION;
COMPUTERIZED SIMULATION; MATHEMATICAL SOLUTIONS; EXACT SOLUTIONS

The developed mathematical model of the motion of the eccentric vibrator allowed to define two own frequencies of oscillations of the mechanical system. To confirm the nominated theoretical positions, the motion of the eccentric vibrator is simulated with the aid of the ADAMS (Automated Dynamic Analysis of Mechanical Systems) software complex

Разработанная математическая модель движения эксцентрикового вибратора позволила определить две собственные частоты колебаний механической системы. Для подтверждения выдвинутых теоретических положений проведено моделирование движения эксцентрикового вибратора в программном комплексе ADAMS (Automated Dynamic Analysis of Mechanical Systems)

Stability of transverse movement of high-speed objects on rail guides of the rocket track

S97

Butova, S.V.; Gerasimov, S.I. (Sarovskij Fiziko-Tekhnicheskij Inst. NIYaU MIFI, Sarov (RU); FGUP RFYaTs VNII Eksperimental'noj Fiziki, Sarov (RU)), E-mail: s.i.gerasimov@mail.ru;

Filippov, V.K. (FGUP RFYaTs VNII Eksperimental'noj Fiziki, Sarov (RU))

Ustojchivost' poperechnogo dvizheniya po napravlyayushchej raketno go treka

p. 172-176

(RU)

4 refs., 7 figs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; COMPUTERIZED SIMULATION;
PHYSICS; ROCKETS; LAUNCHING; MAGNETIC FIELDS

Authors made a mathematical model of the movement of high-speed trains on rails of rocket track. They used simple models, such as two-mass oscillator and two-basic object (a simplified version of rocket train stage). Stability of transverse movement of high-speed objects on rail guides of rocket track has been considered

В работе была сделана попытка математически смоделировать движение высокоскоростных поездов по направляющим ракетного трека на простейших моделях объекта, таких как двухмассовый осциллятор и двухопорный объект (упрощенный вариант ступени ракетного поезда). Была рассмотрена устойчивость поперечного движения высокоскоростных объектов по направляющей ракетного трека

Approximate modeling of chemically reacting gas mixtures of detonation products

S97

Krivosheev, A.V.; Okunev, D.Yu. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU))

Priblizhennoe modelirovanie sostava khimicheskii reagiruyushchikh gazovykh smesey produktov detonatsii

p. 177-183

(RU)

31 refs., 3 figs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; COMPUTERIZED SIMULATION;
BIOCHEMICAL REACTION KINETICS; CHEMICAL REACTIONS; EXPLOSIONS

Based on the assumption of the existence of the partial chemical equilibrium in the detonation products, an approximate method for calculating composition of the detonation products has been developed. The method uses the assumption of the existence of extremum of Helmholtz free energy for a given density, temperature, and molecular weight of the detonation products mixture

На основе предположения о существовании частичного химического равновесия в продуктах детонации разработан приближенный метод для расчета состава и параметров смеси продуктов детонации. Модель использует предположение о существовании экстремума свободной энергии Гельмгольца при заданной плотности, температуре и молекулярном весе смеси

Simulation of supercritical fluids: testing of equations of state

S97

Anikeev, A.A.; Bogdanova, Yu.A.; Viktorov, S.B.; Gubin, S.A.; Lyubimov, A.V. (*Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)*), E-mail: anikeev_aa@mail.ru

Modelirovanie sverkhkriticheskogo flyuida: testirovanie uravnenij sostoyaniya

p. 184-188

(RU)

24 refs., 2 figs., 1 tab.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; COMPUTERIZED SIMULATION;
MONTE CARLO METHOD; DATA ANALYSIS; CHEMICAL ANALYSIS;
SUPERCRITICAL FLUID CHROMATOGRAPHY

Equations of state of overcritical fluids have been considered. Modern theoretical approach has been analyzed. Shock wave experiments with N₂, CO₂ have been simulated. Using simulation data conclusions concerning limits of applicability of modern EOS have been made

Рассмотрены уравнения состояния, применяемые для моделирования сверхкритического флюида. Проведен анализ используемых модельных приближений. Проведено моделирование реальных ударно-волновых экспериментов в средах N₂, CO₂. На основе полученных результатов сделаны заключения о границах применимости современных уравнений состояния

Application of FTIR spectrometry to determine the atomic composition of submicron silicon nitride layers H_xSi_rN_zH_y

S37

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Primenenie IK-Fur'e spektrometrii dlya opredeleniya atomarnogo sostava submikronnykh sloev

nitrida kremniya H_xSi_rN_zH_y

p. 189-200

(RU)

4 refs., 15 figs.

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CHEMISTRY; PHYSICAL CHEMISTRY; SPECTROMETERS; INTERFERENCE;
NITRIDES; QUANTITATIVE CHEMICAL ANALYSIS

Authors presents the developed software that allows to use the data from Fourier transform infrared spectrometry to calculate atomic composition in the silicon nitride H_xSi_rN_zH_y layers of the submicron thickness. Autonomous and rapid method for the quantitative analysis of the IR spectra does not require prior measurement of thickness and density of the layers

Разработано математическое обеспечение, позволяющее использовать данные ИК-Фурье спектроскопии для расчета процентного атомарного состава в слоях нитрида кремния

H_xSi_{1-x}N_zH_{1-z} у субмикронной толщины. Автономный и быстрый метод количественного анализа ИК-спектров не требует предварительного измерения толщины и плотности слоев

High-frequency parameters of graphene field-effect transistors modeling

S97

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Modelirovanie vysokochastotnykh kharakteristik grafenovykh polevykh tranzistorov

p. 201-209

(RU)

26 refs., 8 figs.

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MATHEMATICS; MATHEMATICAL MANIFOLDS; MATHEMATICAL SOLUTIONS;
COMPUTERIZED SIMULATION; COMPUTER CALCULATIONS; TRANSISTORS;
CAPACITANCE

The modeling of radio frequency characteristics of graphene field-effect transistors (GFET) is presented in this paper. The RF performance of FETs is characterized in terms of small-signal parameters such as internal gate transconductance, the gate-to-source and the gate-to-drain capacitances, as well as the cut-off frequency

В данной работе представлено моделирование высокочастотных характеристик, характеризующих производительность графеновых полевых транзисторов.

Производительность высокочастотного полевого транзистора на основе графена характеризуется такими малосигнальными параметрами, как крутизна, емкости затвор-исток и затвор-сток, а также частотой среза

Investigation of electron-transfer processes speed and effect of external microwave field on the steady-state current in single- and double-quantum-well InGaAs/AlAs/InP resonant tunneling structures

S97

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Issledovanie bystrodejstviya ehlektronnykh protsessov i vliyaniya vneshnego SVCh polya na statsionarnyj tok v odnoyamnykh i dvukh"yamnykh rezonansno-tunnel'nykh strukturakh na osnove InGaAs/AlAs/InP

p. 210-218

(RU)

9 refs., 11 figs., 1 tab.

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MATHEMATICS; MATHEMATICAL MODELS; EXPERIMENTAL DATA; NUMERICAL DATA; TUNNEL DIODES

Theoretical and experimental investigations of microwave field effect on steady-state current in single- and double-quantum-well InGaAs/AlAs/InP resonant tunneling diode (RTD) structures have been performed. Authors have developed a theoretical model that satisfactorily describes the modification of RTD volt-ampere characteristics under microwave radiation

Выполнены теоретические и экспериментальные исследования влияния внешнего СВЧ поля на стационарный ток в одноямных и двухъямных InGaAs/AlAs/InP резонансно-туннельных диодных (РТД) структурах. Построена теоретическая модель, удовлетворительно описывающая изменения вольт-амперных характеристик РТД структур под воздействием СВЧ излучения

Possible applications of the longitudinal magneto-optic effect to measure parameters of the profile of high voltage electrical systems

S71

Moloshnaya, E.S.; Fomenko, O.V.; Ul'yanova, U.Yu. (Volgodonskij Inzhenerno-Tekhnicheskij Inst. NIYaU MIFI, Volgodonsk (RU))

Vozможности primeneniya prodol'nogo magnitoopticheskogo ehffekta dlya izmereniya parametrov rezhima vysokovol'tnykh ehlektricheskikh sistem

p. 219-221

(RU)

3 refs., 2 figs.

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PHYSICS; CLASSICAL MECHANICS; MATHEMATICAL MODELS; ELECTROMAGNETIC FIELDS; ELECTRIC FIELDS; EHV DC SYSTEMS

Authors demonstrate that the application of magneto-optical measuring instruments in high-voltage electric systems in chains of a direct current allows not only to expand the range of measurements of electrical quantities, but also to raise indicators of reliability, durability and stability of operation of these devices with their full ecological safety

Авторы демонстрируют, что применение магнитооптических измерителей в высоковольтных электрических системах в цепях постоянного тока позволяет не только расширить диапазон измерений электрических величин, но и повысить показатели надежности, долговечности и стабильности работы этих устройств при наличии их полной экологической безопасности

Methods of leakage control cladding in boiling water reactor VK-50

S22

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Metody kontrolya germetichnosti obolochek tvehlov na korpusnom kipyashchem reaktore VK-50

p. 222-227

(RU)

4 refs., 4 figs., 2 tabs.

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NUCLEAR POWER; BWR TYPE REACTORS; VK-50 REACTOR; RADIOACTIVITY; RADIATION MONITORING; RADIATION PROTECTION

Authors present the results of studies of the intrinsic radiation safety properties of the VK-50 reactor facility. The features of phase transfer radioactivity on the boiling-water reactor can determine the defects in the fuel cladding. An exceptional method for determining the leakage control cladding on running and shutdown reactor has been developed

Приведены результаты исследований внутренне присущих свойств радиационной безопасности реакторной установки ВК-50. Обосновано, что особенности фазового переноса радиоактивности позволяют точно и оперативно определять дефекты оболочек твэлов на корпусном кипящем реакторе. Разработаны не имеющие аналогов способы и устройства контроля герметичности оболочек твэлов на работающем и остановленном реакторе

Improvement of the electromagnetic situation in networks of operational current at nuclear power plant for the purpose of ensuring reliability of monitoring systems, control, RPA and communications, realized on the basis of digital equipment

S22

Fomenko, O.V.; Moloshnaya, E.S.; Ul'yanova, Yu.E. (Volgodonskij Inzhenerno-Tekhnicheskij Inst. NIYaU MIFI, Volgodonsk (RU))

Uluchshenie ehlektromagnitnoj obstanovki v setyakh operativnogo toka na AEhS s tsel'yu obespecheniya nadezhnosti sistem kontrolya, upravleniya, RZA i svyazi, realizovannykh na baze tsifrovoj tekhniki

p. 228-231

(RU)

2 refs., 5 figs.

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NUCLEAR POWER; ELECTRIC POWER; REACTORS; REACTOR SAFETY; REACTOR MONITORING SYSTEMS; REACTOR CONTROL SYSTEMS

The authors propose the technique of designing a portable grounding contour for protection and control systems, relay protection and automation (RPA) systems made on the basis of digital equipment in networks of an operational direct current to increase the reliability of their

functioning under the conditions of influence of strong hindrances and improvement of an electromagnetic environment

Предложена реализация проектирования выносного заземляющего контура для систем защиты и управления, реализованных на базе цифровой техники в сетях оперативного постоянного тока на атомных электрических станциях, с целью повышения надежности функционирования их в условиях воздействия сильных помех и улучшения электромагнитной обстановки

Genome-specificity of triplet periodicity of prokaryotic genomes

S63

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Izuchenie genomnoj spetsifichnosti tripletnoj periodichnosti genov prokariot

p. 232-239

(RU)

32 refs., 6 figs., 1 tab.

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BIOLOGY; BIOCHEMISTRY; MEDICINE; DNA; DNA SEQUENCING; GENETICS

Authors have found that triplet periodicity (TP) is more similar inside genome than between genomes and that TP distribution inside genome corresponds to hypothesis which imply common TP pattern for majority of sequences inside a genome. To test the specificity of TP, the classification of the gene has been carried out to detect the belonging to one genome of the pair. For most pairs, the classification accuracy was more than 85%

Результаты, полученные для 45 прокариотических геномов, показывают, что внутри геномов триплетная периодичность (ТП) отличается меньше, чем между ними, а распределение различия ТП более соответствует однородной гипотезе. Для проверки специфичности ТП была проведена классификация генов на принадлежность к одному геному из пары. Для большинства пар, точность классификации составила более 85%

Classification of ways of describing the continuous contours with no branchings in digital images

S97

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Klassifikatsiya sposobov opisaniya nepreryvnykh konturov bez vetvlenij na tsifrovyykh izobrazheniyakh

p. 246-251

(RU)

8 refs., 7 figs., 1 tab.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; DIGITAL SYSTEMS;
COMPUTERIZED SIMULATION; IMAGE PROCESSING; CLASSIFICATION

The paper presents a new classification of ways of describing the contours of digital images. The application of the proposed classification in solving the problem of communication and storage of descriptions of circuits on the example of interaction with a robot, which is a part of mobile robotic complex with workstation, is described

В статье представлена новая классификация способов описания контуров цифровых изображений, отличающаяся от существующих своей полнотой и детальностью. Было показано применение предложенной классификации при решении задачи передачи и хранения описаний контуров на примере взаимодействия робота, входящего в состав мобильного робототехнического комплекса с рабочей станцией

The method for converting numbers represented in a positional number system into the residue number system

S97

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Metod perevoda chisel iz pozitsionnoj sistemy schisleniya v sistemu schisleniya v ostatochnykh klassakh

p. 252-253

(RU)

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MATHEMATICS; MATHEMATICAL SOLUTIONS; COMPUTER CODES;
PROGRAMMING; NUMERICAL SOLUTION; ANALYTICAL SOLUTION

One of the problems in creating of computers based on residue number system (RNS) is a problem of numbers translation from positional number system into the RNS and back. Accordingly, one approach to solve this problem is to choose the values of RNS bases. It is possible that this approach will help to compare the current value of numbers and determine the sign, without converting them to the positional number system

Одной из проблем, возникающих при построении ЭВМ в системах остаточных классов (СОК), является проблема перевода чисел из позиционных систем счисления в СОК и обратно. Соответственно, одним из возможных подходов к решению этой проблемы является выбор величин оснований СОК. Не исключено, что этот подход позволит подойти к решению проблем сравнения текущих величин чисел и определения знака числа без их преобразования в позиционные системы счисления

Processing of results of software regression testing by the method of the associated hashes

S97

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Obrabotka rezul'tatov regressionnogo testirovaniya PO metodom svyazannykh khehshej

p. 254-256

(RU)

2 refs., 1 fig.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; COMPUTER CODES; PROGRAMMING; NUMERICAL SOLUTION; ANALYTICAL SOLUTION; ANALYTIC FUNCTIONS

Within regression testing, a serious problem is the comparing of results of testing on the same test examples. Complexity consists in the need to localize a discrepancy of output data under condition of their large volume. For the solution of this problem it is offered to use a method of the connected hashes: a data logging method in case of which the registration records relating to different logged data, are connected with each other by means of system of hashes

В рамках регрессионного тестирования серьезной проблемой становится сравнение результатов тестирования на одних и тех же тестовых примерах. Сложность состоит в необходимости локализации расхождения в выходных данных при условии их большого объема. Для решения данной проблемы предлагается использовать метод связанных хэшей - метод регистрации данных, при котором регистрационные записи, относящиеся к разным регистрируемым данным, связывают друг с другом посредством системы хэшей

Search for long-lived multicharged particles in the ATLAS experiment at the Large Hadron Collider

S72

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Poisk dolgozhivushchikh mnogozaryadnykh chastits v ehksperimente ATLAS na BAK TsERN

p. 261-266

(RU)

24 refs., 6 figs., 1 tab.

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PHYSICS; PARTICLES; CHARGED-PARTICLE REACTIONS; CHARGED PARTICLES; DRELL MODEL; CERN LHC

The results on the search for long-lived multicharged heavy particles in proton-proton collisions in the 2011 data of the ATLAS experiment are presented. The general theoretical models

predicting exotic multicharged particles are considered. Distinctive signatures of such particles in every ATLAS detector required to separate them from the Standard Model background are briefly discussed

Представлены результаты по поиску долгоживущих многозарядных тяжелых частиц в эксперименте АТЛАС (A Toroidal LHC ApparatuS) в протон-протонных столкновениях в экспериментальных данных 2011 г. Рассмотрены основные теоретические модели, предсказывающие экзотические многозарядные частицы. Вкратце обозначены отличительные характеристики таких частиц, с помощью которых их можно отделять от фона Стандартной модели в каждом из детекторов АТЛАС

Photoionization parameters in two- and three-level systems

S71

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Parametry fotoionizatsii v dvukh- i trekhurovnykh sistemakh

p. 267-278

(RU)

9 refs., 10 figs.

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PHYSICS; ATOMIC PHYSICS; LASER RADIATION; LASERS; QUANTUM COMPUTERS; PHOTOCATHODES

Photoionization processes in two- and multilevel quantum systems have been analyzed in application to the infrared and optical ranges. However, this theory is applicable for quantum systems with a larger finite number of states. Various combinations of the optical frequencies and detunings have been considered. The numerical simulation of various combinations of the frequencies and detunings shows a decrease in the efficiency of photoionization with an increase in detuning from the exact

Приводится анализ процессов фотоионизации для двух- и многоуровневых квантовых систем, в т.ч. применительно к ИК и оптического диапазонов. Однако эта теория применима и для квантовых систем, имеющих большее, но конечное число состояний. Численное моделирование различных комбинаций частот и отстроек показывает снижение эффективности фотоионизации при удалении от точного резонанса

Evaluation of cross sections and covariance uncertainty matrices for $^{210}\text{Bi}(n, xn)$ reactions

S71

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Otsenka sechenij i kovariatsionnykh matrits pogreshnostej reaktsij $^{210}\text{Bi}(n, xn)$

p. 279-284

(RU)

13 refs., 4 figs.

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PHYSICS; QUANTUM MECHANICS; HIGH ENERGY PHYSICS; NEUTRON EMISSION;
CROSS SECTIONS

The Bayesian approach has been tested for the $^{209}\text{Bi}(n, 3n)^{207}\text{Bi}$ and $^{209}\text{Bi}(n, 4n)^{206}\text{Bi}$ reactions. The estimates of the cross section for these reactions describe well the experimental data, and covariance uncertainty matrices are continued to higher energies (up to 150 MeV) with the standard partition to 20 MeV with 640 groups. The old experimental data are renormalized to the new half-life values, monitor reaction cross sections, and the emission probabilities of gamma lines

Проведена апробация Байесовского подхода на реакциях $^{209}\text{Bi}(n, 3n)^{207}\text{Bi}$ и $^{209}\text{Bi}(n, 4n)^{206}\text{Bi}$. Полученные оценки сечения этих реакций хорошо описывают экспериментальные данные, а ковариационные матрицы погрешностей представляют собой продолжение на более высокие энергии (до 150 МэВ) стандартного разбиения на 640 групп до 20 МэВ. Выполнена перенормировка данных старых экспериментальных измерений на новые значения периодов полураспада, сечений мониторов и вероятностей выходов гамма лучей

Algebraic method for analysis of nonlinear systems with a normal matrix

S97

Konyaev, Yu.A. (Rossijskij Univ. Druzhy Narodov, Moscow (RU)); Salimova, A.F.

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Algebraicheskiy metod analiza nelinejnykh sistem s normal'noj matritsej

p. 285-289

(RU)

7 refs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; MATHEMATICAL EVOLUTION;
ALGEBRA; NONLINEAR PROBLEMS; LYAPUNOV METHOD; DIFFERENTIAL
EQUATIONS

A promising method has been proposed for analyzing a class of quasilinear nonautonomous systems of differential equations whose matrix can be represented as a sum of nonlinear normal matrices, which makes it possible to analyze stability without using the Lyapunov functions

Предложен перспективный метод анализа одного класса квазилинейных неавтономных систем дифференциальных уравнений, матрица которых может быть представлена в виде суммы нелинейных нормальных матриц, что позволяет проводить исследования вопросов устойчивости без использования традиционного аппарата функций Ляпунова

Spectral analysis of some classes of nonautonomous systems with periodic and polynomially periodic matrices

S97

Konyaev, Yu.A.; Khoa, N.V. (Rossijskij Univ. Druzhy Narodov, Moscow (RU)), E-mail: nvkhoa@yandex.ru

Spektral'nyj analiz nekotorykh klassov neavtonomnykh sistem s periodicheskoj i polinomial'no periodicheskoj matritsami

p. 290-296

(RU)

8 refs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; MATHEMATICAL EVOLUTION;
NONLINEAR PROBLEMS; DIFFERENTIAL EQUATIONS; ASYMPTOTIC SOLUTIONS;
SPECTRAL FUNCTIONS

A spectral method different from previously known methods has been proposed for the study of nonautonomous systems of ordinary differential equations with periodic and polynomially periodic matrices. The asymptotic expression has been constructed for solutions of linear systems of this class

Предложен отличный от ранее известных методов спектральный метод исследования неавтономных систем обыкновенных дифференциальных уравнений (ОДУ) с периодической и полиномиально периодической матрицами. Построена асимптотика решения линейных систем такого класса

Exact solutions of the generalized Kolmogorov-Petrovskii-Piskunov equation

S97

Kudryashov, N.A.; Zakharchenko, A.S. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: aszakharchenko@mephi.ru

Tochnye resheniya obobshchennogo uravneniya Kolmogorova-Petrovskogo-Piskunova

p. 297-300

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MATHEMATICS; MATHEMATICAL SOLUTIONS; MATHEMATICAL EVOLUTION;
ANALYTICAL SOLUTION; NONLINEAR PROBLEMS; DIFFERENTIAL EQUATIONS;
EQUATIONS

Exact solutions of the generalized Kolmogorov-Petrovskii-Piskunov equation has been found with the use of the Q-function method. The velocities of traveling waves have been determined and analyzed

В работе рассматривается обобщенное уравнение Колмогорова-Петровского-Пискунова. С помощью метода Q-функций находятся точные решения этого уравнения. Определяются и анализируются скорости бегущих волн

Interval and limit r/ϕ characteristics of the Weierstrass function

S97

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Interval'nye i predel'nye r/ϕ -kharakteristiki funktsii Vejershtrossa

p. 301-310

(RU)

13 refs., 7 figs., 7 tabs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; MATHEMATICAL EVOLUTION;
NONLINEAR PROBLEMS; DIFFERENTIAL EQUATIONS; FUNCTIONS; WEIERSTRASS
FUNCTIONS

An approach based on the r/ϕ algorithm proposed for the summation of divergent continued fractions has been considered in order to study nondifferentiable functions. The r/ϕ characteristics of the Weierstrass function have been introduced and calculated for some examples

Рассматривается подход к изучению недифференцируемых функций, основные идеи которого связаны с r/ϕ -алгоритмом, предложенным для суммирования расходящихся непрерывных дробей. Вводятся r/ϕ -характеристики функции Вейерштрасса и приводятся примеры вычисления этих характеристик

Numerical study of the fifth-order Gardner-Ostrovsky equation

S97

Zemlyanukhin, A.I.; Kovalev, A.V. (Saratovskij Gosudarstvennyj Tekhnicheskij Univ. imeni Yu.A. Gagarina, Saratov (RU)), E-mail: zemlyanukhinai@sstu.ru

Chislennoe issledovanie uravneniya Gardnera-Ostrovskogo pyatogo poryadka

p. 311-315

(RU)

7 refs., 7 figs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; MATHEMATICAL EVOLUTION;
NONLINEAR PROBLEMS; EQUATIONS; DIFFERENTIAL EQUATIONS

An implicit pseudospectral scheme is proposed for the solution of the fifth-order Gardner-Ostrovsky equation arising in the model of propagation of nonlinear deformation waves in thin-

walled structures interacting with the surrounding elastic medium. Advantages of the use of the implicit pseudospectral method for Ostrovsky-type equations with periodic boundary conditions have been demonstrated

Численно исследовано уравнение Гарднера-Островского пятого порядка, возникающее при моделировании распространения нелинейных волн деформации в тонкостенных конструкциях, взаимодействующих с окружающей упругой средой. Обоснована целесообразность использования неявного псевдоспектрального метода, свободного от жестких ограничений на выбор шага по времени и позволяющего с высокой точностью аппроксимировать пространственные производные высокого порядка, для уравнений типа Островского с периодическими граничными условиями

Review of modeling of radiation sources of electron accelerators for dosimetric Monte Carlo calculations in radiotherapy

S97

Dalechina, A.V.; Ksenofontov, A.I. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: dalechina_A@bk.ru; Gorlachev, G.E. (NII Nejrakhirurgii im. Akademika N.N. Burdenko, Moscow (RU))

Obzor problemy modelirovaniya istochnikov izlucheniya ehlektronnykh uskoritelej s tsel'yu dozimetricheskikh raschetov v lucevoj terapii metodom Monte-Karlo

p. 316-328

(RU)

94 refs., 3 figs.

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**MATHEMATICS; MATHEMATICAL MODELS; MONTE CARLO METHOD;
CALCULATION METHODS; RADIATION DOSE DISTRIBUTIONS; PHOTON BEAMS**

The problem of Monte Carlo modeling of the radiation source has been reviewed in the paper. Despite numerous studies of this subject, a comprehensive solution of the problem is absent

Целью данной работы является обзор публикаций, посвященных проблеме моделирования источника излучения методом Монте-Карло. Несмотря на огромное количество исследований, комплексного решения проблемы до сих пор не найдено

On the simulation of cryoimpact processes on body's tissue including the blood convection effect

S97

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O raschete protsessov kriovozdejstviya na oblast' tela s uchetom vliyaniya konveksii krovi

p. 329-335

(RU)

7 refs., 7 figs.

The problems of numerical modeling of cryoimpact on a strongly inhomogeneous region have been considered. Stephane's two-dimensional problem is solved including convective heat transfer in an unfrozen part of the region. The dependence of the total cryodestruction time of the region of interest on the properties of adjacent regions is investigated

В работе рассматривается задача о численном моделировании процессов криовоздействия на сильно неоднородную область тела. Решается двумерная задача Стефана с учетом конвективного переноса тепла в незамороженной части тела. Исследуется зависимость времени полной криодеструкции заданного участка в зависимости от свойств прилегающих областей

Computation of the grain structure of a hexagonal polycrystal

S97

Antonova, A.O.; Savelova, T.I. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: aoantonova@mail.ru

Vychislenie zerennoj struktury polikristalla geksgonal'noj simmetrii

p. 336-339

(RU)

8 refs., 4 figs., 1 tab.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; NONLINEAR PROBLEMS;
CALCULATION METHODS; MONTE CARLO METHOD; POLYCRYSTALS; GRAIN SIZE

The grain structure of a hexagonal polycrystal is designed with allowance for the texture. The texture is considered as the central normal distribution on the rotation group $SO(3)$. Histograms for the size distribution of grains are plotted according to the data obtained. The resulting histograms are approximated by common gamma distribution

Производится моделирование зеренной структуры поликристаллического материала гексагональной симметрии с учетом текстуры. Рассматривается текстура в виде центрального нормального распределения на группе вращений $SO(3)$. По полученным данным строятся гистограммы для распределения зерен по размерам. Построенные гистограммы аппроксимируются обобщенным гамма-распределением

The use of point gas-discharge light source in the combined schemes for photoregistration in aero-ballistic experiments

S97

Speranskij, A.V.; Gerasimov, S.I. (Sarovskij Fiziko-Tekhnicheskij Inst. NIYaU MIFI, Sarov (RU); FGUP RFYaTs VNII Eksperimental'noj Fiziki, Sarov (RU)), E-mail: s.i.gerasimov@mail.ru; Pisetskij, V.V. (Sarovskij Fiziko-Tekhnicheskij Inst. NIYaU MIFI, Sarov (RU))

Primenenie tochechnogo gazorazryadnogo istochnika sveta v kombinirovannykh skhemakh fotoregistratsii v praktike aeroballisticheskogo ehksperimenta

p. 340-345

(RU)

4 refs., 6 figs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; FUNCTIONS; NONLINEAR PROBLEMS; EQUATIONS; DIFFERENTIAL EQUATIONS

The schemes of shadow photography, designed for registration in aero-ballistic experiments, are described. The algorithm for determining of the parameters of such schemes and requirements to the light source characteristics is given. The gas-discharge emitter satisfying for use in these schemes is described. The results of practical aero-ballistic tests using such schemes are shown

Описаны схемы теневого фотографирования, разработанные для регистрации в аэробаллистических экспериментах. Приводится алгоритм определения параметров таких схем, а также требований к характеристикам источника света. Описан газоразрядный излучатель с характеристиками, удовлетворяющими для использования в перечисленных схемах. Приведены результаты использования схем в практике аэробаллистических испытаний

Resonance self-indication as a method for estimating fissile elements in spent nuclear assemblies

S12

Mitskevich, A.V.; Korovin, Yu.A. (Obninskij Inst. Atomnoj Ehnergetiki NIYaU MIFI, Obninsk (RU)), E-mail: Aleksandr_M@tut.by

Propuskanie po deleniyu ^{235}U i ^{239}Pu kak sposob otsenki ikh sodержaniya v OTVS

p. 346-352

(RU)

6 refs., 6 figs., 7 tabs.

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WASTE MANAGEMENT; WASTE PROCESSING; SPENT FUELS; FUEL ASSEMBLIES; FISSILE MATERIALS; NEUTRON ACTIVATION ANALYSIS

The integral version of the neutron resonance transmission analysis (NRTA) has been developed in order to solve the problem of estimating fissile elements in spent nuclear fuel. Two variants of the integral neutron resonance transmission analysis (the resonance self-indication (the average transmission by fission) and the average full transmission) have been described

Статья посвящена разработке интегрального варианта нейтронного спектрального анализа (НСА) для решения задачи оценки делящихся элементов в отработавшем ядерном топливе. Приводится описание двух вариантов воплощения интегрального НСА - среднего полного пропускания и среднего пропускания по делению

Allowance for variability of thermophysical properties of a fluid in the heat transfer to a forced water flow at supercritical pressure

S22

Deev, V.I.; Kharitonov, V.S.; Arhipov, V.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: videev@mephi.ru; Churkin, A.N. (OAO OKB GIDROPRESS, Podol'sk (RU))

Uchet peremennosti teplofizicheskikh svoystv teplonositelya v uravnenii teplootdachi k vynuzhdenному potoku vody sverkhkriticheskogo davleniya

p. 353-361

(RU)

27 refs., 5 figs., 1 tab.

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REACTORS; REACTOR TECHNOLOGY; HEAT TRANSFER; CRITICAL HEAT FLUX; CRITICAL FLOW; CRITICAL MASS; SUPERCRITICAL STATE

The preliminary results of development of a new heat transfer correlation for supercritical water flowing in vertical heated tubes have been reported. It has been shown through a comparison with experimental data that the suggested method of allowance for variations of water thermophysical properties near the critical point provides a satisfactory agreement of the predicted and experimental results

Подведены предварительные итоги исследования, основной целью которого является получение нового уравнения для инженерных расчетов теплоотдачи от поверхности обогреваемых вертикальных труб при движении в них воды сверхкритического давления. Путем сравнения с большим массивом экспериментальных данных показано, что предлагаемый метод учета сильного изменения теплофизических свойств теплоносителя вблизи критической точки обеспечивает удовлетворительное согласование расчетных и экспериментальных результатов

Modeling of thermal-hydraulic processes in passive heat removal systems for fast sodium cooled reactors

S22

Alekseev, P.N. (Natsional'nyj Issledovatel'skij Tsentr Kurchatovskij Inst., Moscow (RU)); Bochkarev, A.S.; Korsun, A.S.; Kharitonov, V.S. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: alseboch@mail.ru

Modelirovanie teplogidravlicheskih protsessov v sistemakh passivnogo otvoda tepla v bystrykh natrievykh reaktorakh

p. 362-367

(RU)

8 refs., 3 figs.

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REACTORS; REACTOR TECHNOLOGY; FAST REACTORS; REACTOR VESSELS;
SAFETY; REACTOR SAFETY; NATURAL CONVECTION

The processes of heat removal in passive decay heat removal systems in a BN-1200 reactor are discussed. The analysis of the assumptions and limitations of one-dimensional equations for unsteady natural convection in closed circuits are performed. Integrated models of hydraulic processes that ensure the removal of residual heat in the BN-type reactor are developed

В работе обсуждаются процессы теплосъема при отводе остаточного тепловыделения в реакторе БН-1200. Выполнен анализ допущений и ограничений одномерных уравнений нестационарной естественной конвекции в замкнутых контурах. Разработаны интегральные модели теплогидравлических процессов, обеспечивающих отвод остаточного тепловыделения в реакторе типа БН

Thermal-hydraulic characteristics of the RBMK control and protection system channels

S22

Avramova, E.A.; Il'ichev, Yu.D.; Lavrishchev, S.T.; Leskin, S.T.; Slobodchuk, V.I. (Obninskij Inst. Atomnoj Ehnergetiki NIYaU MIFI, Obninsk (RU)), E-mail: slobovic@mail.ru

Теплогидравлические характеристики каналов СУЗ RBMK при нарушении режима их охлаждения

p. 368-371

(RU)

4 refs., 4 figs., 2 tabs.

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v. 3(3)

REACTORS; REACTOR TECHNOLOGY; LWGR TYPE REACTORS; REACTOR CONTROL SYSTEMS; SAFETY; LOSS OF COOLANT; FUEL ELEMENT CLUSTERS

The thermal-hydraulic characteristics of the RBMK-1000 control and protection system channel with rod cluster control have been calculated under different operational disturbance regimes. It has been shown that the temperature of the rod cluster control structural materials increases considerably if loss of coolant occurs. The critical element is the sleeve made of CAB1 aluminum alloy

Выполнен расчетный анализ теплогидравлических характеристик модели канала СУЗ с кластерными регулирующими органами (КРО) реактора РБМК-1000 в режимах с нарушением нормальной эксплуатации. Показано, что при потере охлаждающей воды температура конструкционных материалов элементов КРО значительно возрастает. Критическим элементом является гильза, выполненная из алюминиевого сплава CAB1

Localization of an irregular power flux increase source in the core of a nuclear reactor with the use of a special parameter

S22

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Opređenje koordinat istochnika anomal'nogo rosta plotnosti potoka nejtronov v yadernom reaktore s ispol'zovaniem spetsial'nogo parametra

p. 372-377

(RU)

1 ref., 2 figs., 2 tabs.

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REACTORS; REACTOR TECHNOLOGY; REACTOR CORES; NEUTRON FLUX; FLUX DENSITY; NEUTRON SOURCES

An algorithm of localization of a local neutron flux increase source in the core of a nuclear reactor is described. The algorithm allows determining the position of the neutron flux source using the signals of the three or more detectors. The detectors are fission chambers distributed under the bottom of the core

В статье описывается алгоритм определения координат источника локального роста плотности потока нейтронов (ППН) в ядерном реакторе. Предлагаемый алгоритм позволяет определить расположение источника роста ППН по сигналам трех или более детекторов. В качестве детекторов используются ионизационные камеры деления (ИК), распределенные под активной зоной реактора

Inexpensive supercomputer with a hybrid CPU/GPU architecture as an effective tool in the teaching and research activities

S97

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Byudzhethnyj superkomp'yuter s gibridnoj CPU/GPU-arkhitekturoj kak ehffektivnyj instrument v uchebnoj i nauchnoj deyatel'nosti

p. 378-384

(RU)

13 refs., 2 figs., 2 tabs.

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v. 3(3)

COMPUTERS; HYBRID COMPUTERS; SUPERCOMPUTERS; COMPUTER ARCHITECTURE; DIGITAL SYSTEMS; COMPUTER CALCULATIONS

The problem of the building of low-cost supercomputer organized as a computer cluster with hybrid architecture is explained. The principles of the organization of such a computer system, highlighting the main problems encountered in its implementation and operation, are given

Рассматривается проблема построения недорогого суперкомпьютера, организованного как вычислительный кластер с гибридной архитектурой. Излагаются принципы организации такой вычислительной системы, освещаются основные проблемы, возникающие при ее реализации и эксплуатации

Semimicroscopic description of the damping of the isovector giant dipole resonance in spherical nuclei

S73

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Polumikroskopicheskoe opisanie relaksatsii izovektornogo gigantskogo dipol'nogo rezonansa v sfericheskikh yadrakh p. 389-398 (RU)

23 refs., 9 figs., 2 tabs.

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v. 3(4)

PHYSICS; PARTICLE SIZE; PHOTONUCLEAR REACTIONS; GIANT RESONANCE; PHOTONUCLEONS; MAGNETIC DIPOLES

The description of observable consequences of the damping of the isovector giant dipole resonance in spherical nuclei has been proposed within the recently developed particle-hole dispersive optical model. The photoabsorption and direct + semidirect photoneutron and inverse reactions accompanied by the excitation of the isovector giant dipole and quadrupole resonances have been analyzed

В рамках сформулированной недавно частично-дырочной дисперсионной оптической модели предложено описание наблюдаемых следствий релаксации изовекторного гигантского дипольного резонанса в жестких сферических ядрах. Анализируются фотопоглощение, прямые + полупрямые фотонейтронные и обратные реакции, сопровождающиеся возбуждением изовекторных гигантских дипольного и квадрупольного резонансов

Painleve analysis and exact solutions of the system of equations describing the Belousov-Zhabotinskii chemical reaction

S97

Kudryashov, N.A.; Zakharchenko, A.S. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: aszakharchenko@mephi.ru

Painleve-analiz i tochnye resheniya sistemy uravnenij, opisyvayushchikh khimicheskuyu reaktsiyu Belousova-Zhabotinskogo p. 399-407 (RU)

35 refs., 6 figs., 1 tab.

The system of nonlinear differential equations describing the Belousov-Zhabotinskii chemical reaction is considered. The Painleve property of this reaction-diffusion system is studied. Exact traveling wave solutions of the system for the Belousov-Zhabotinskii reaction are found. Periodic solutions expressed in terms of the Weierstrass elliptic function are also obtained

Рассматривается система нелинейных дифференциальных уравнений, описывающих химическую реакцию Белоусова-Жаботинского. Показывается, что данная система не обладает свойством Панлеве. С помощью метода логистической функции находятся точные решения системы в виде бегущих волн. Также находятся периодические точные решения, выраженные через эллиптическую функцию Вейерштрасса

Bifurcations of spatially inhomogeneous solutions in two boundary value Problems for the generalized Kuramoto-Sivashinsky equation

S97

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Bifurkatsii prostranstvenno neodnorodnykh reshenij v dvukh kraevykh zadachakh dlya obobshchennogo uravneniya Kuramoto-Sivashinskogo

p. 408-415

(RU)

16 refs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; EQUATIONS; EXACT SOLUTIONS;
BIFURCATION; DIFFERENTIAL EQUATIONS; ATTRACTORS

Two boundary value problems for the generalized Kuramoto-Sivashinsky equation have been considered with the use of the theories of invariant manifolds, normal forms and the asymptotic methods. The equation in question describes the ripple topography induced by ion bombardment. This topography can appear when the homogeneous equilibrium states change stability. The possibility of emerging two- or three-dimensional local attractors containing unstable solutions has been shown

Рассмотрены две краевые задачи для обобщенного уравнения Курамото-Сивашинского, которое используется в качестве математической модели для описания процесса формирования неоднородного рельефа при ионной бомбардировке. Такой рельеф может появиться при смене устойчивости у однородных состояний равновесия. Показана возможность рождения двух- или трехмерных локальных аттракторов, заполненных неустойчивыми решениями

Study of the polarization in diamond detectors of ionizing radiation

S61

Ibragimov, R.F.; Kadilin, V.V.; Tyurin, E.M. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: IbragimRF@gmail.com; Kolyubin, V.A. (OOO Proizvodstvenno-Tekhnologicheskij Tsentri UralAlmazInvest, Moscow (RU))

Issledovanie yavleniya polyarizatsii v almaznykh detektorakh ioniziruyushchego izlucheniya p. 416-422

(RU)

2 refs., 11 figs., 2 tabs.

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v. 3(4)

IRRADIATION; RADIATION PROTECTION; IONIZING RADIATIONS; RADIATION DETECTION; RADIATION DETECTORS; POLARIZATION; RADIATION MONITORING

The effect of polarization on the operation of diamond detectors of ionizing radiation has been studied. Various methods for the elimination of this effect have been discussed. Polarization in the detectors under study has been examined at the detection of different types of ionizing radiation at different polarities of the detectors power supply

Проводились исследование влияния на работу алмазных детекторов ионизирующего излучения явления поляризации и изучение различных способов устранения влияния эффекта поляризации. Явление поляризации в представленных детекторах исследовалось при регистрации различных типов ионизирующего излучения при различных поляриностях питания детекторов

Features of the growth of *Trifolium repens* L. after pre-sowing irradiation under the conditions of additional radioactive contamination of a soil substrate

S61

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Osobennosti rosta *Trifolium repens* L. posle predposevnogo oblucheniya v usloviyakh dopolnitel'nogo radioaktivnogo zagryazneniya pochvennogo substrata

p. 423-431

(RU)

8 refs., 7 figs., 1 tab.

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v. 3(4)

IRRADIATION; RADIATION PROTECTION; IONIZING RADIATIONS; RADIATION MONITORING; CONTAMINATION; PLANTS; GERMINATION

The results of a study aimed at identifying patterns of the reaction of *Trifolium repens* L. seedlings subjected to pre-sowing irradiation on radioactive contamination of a soil substrate have been reported. The dose range in which the growth of seedlings, as well as doses at which

growth inhibition of a clover occurs, has been determined by the method of evaluating the morphological parameters of the plants grown in a web culture and the roll in the universal soil

В статье приведены результаты исследования, направленного на выявление закономерностей реакции проростков *Trifolium repens* L., претерпевших предпосевное облучение, на радиоактивное загрязнение почвенного субстрата. Методом оценки морфологических параметров растений, выращенных в рулонной культуре и на универсальном грунте, был определен диапазон доз, стимулирующих ростовые процессы у проростков, а также дозы, при которых происходит ингибирование роста клевера

Study of the evaporation of uranium nitride by the thermogravimetry method

S38

Astaf'ev, V.A.; Baranov, V.G.; Kuz'min, R.S.; Mikhal'chik, V.V.; Pokrovskij, S.A.; Tennishev, A.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: onil709@mail.ru
Issledovanie ispareniya nitrída urana metodom termogravimetrii

p. 432-436

(RU)

8 refs., 7 figs.

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CHEMISTRY; NUCLEAR CHEMISTRY; URANIUM NITRIDES; EVAPORATION;
THERMAL GRAVIMETRIC ANALYSIS; DISSOCIATION; MASS SPECTROSCOPY

The thermal stability of sintered samples of uranium mononitride has been studied in the high-purity helium atmosphere by means of heating and aging at temperatures 1900-2300 deg C. The microstructure of samples after tests contains spherical metallic uranium particles nonuniformly distributed over the volume

Термическая стабильность спеченных образцов монокрида урана была исследована в среде высокочистого гелия путем нагрева и выдержки при температурах 1900-2300 град С. Микроструктура образцов после испытаний содержит неравномерно распределенные по объему сферические включения металлического урана

Effect of the molybdenum content on the kinetics of interaction between components in a dispersed nuclear fuel

S36

Nikitin, S.N.; Tarasov, B.A.; Shornikov, D.P.; Burlakova, M.A.; Baranov, V.G. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: mephi200809@yandex.ru

Vliyanie soderzhaniya molibdena na kinetiku vzaimodejstviya komponentov v dispersnom yadernom toplive

p. 437-440

(RU)

6 refs., 4 figs., 1 tab.

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METALS; URANIUM ALLOYS; BERYLLIUM ALLOYS; ALUMINIUM ALLOYS;
MOLYBDENUM; DIFFUSION; NUCLEAR FUELS; URANIUM-MOLYBDENUM FUELS

The effect of the molybdenum content in UMo alloys on the kinetics of their interaction with aluminum alloys in a dispersed nuclear fuel of research reactors has been studied. Annealings have been carried out at different temperatures of UMo/AlBe diffusion couples

В данной работе проводились исследования влияния содержания молибдена в UMo-сплавах на кинетику взаимодействия их с алюминиевыми сплавами в дисперсном ядерном топливе исследовательских реакторов. Проведены были отжиги при различных температурах диффузионных пар UMo/AlBe

Modeling of thermal stresses in a steel pipe with a heated airflow

S42

Biryukov, A.P.; Volkova, Z.S.; Surin, V.I. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: bir.sasha@rambler.ru

Modelirovanie termicheskikh napryazhenij, vznikayushchikh v stal'noj trube pri prokhozhdenii nagreтого воздушного потока

p. 441-447

(RU)

7 refs., 7 figs., 2 tabs.

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ALLOYS; PIPES; THERMAL STRESSES; NONDESTRUCTIVE TESTING; MATERIALS TESTING; AIR FLOW

Thermal stresses and deformations in the metal (Kh18N10T alloy) pipes in the thermal cycling mode when a heated air flow passes through a pipe have been studied

Представлены результаты исследования термических напряжений и деформаций в металлических трубах из сплава X18H10T, возникающих в режиме термоциклирования при многократном пропуске по трубе нагретого воздушного потока

Thermoelectric method for measurement of the thickness of coatings

S42

Surin, V.I.; Biryukov, A.P. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: bir.sasha@rambler.ru

Primenenie termoelektricheskogo metoda dlya opredeleniya tolshchiny plenok i pokrytij

p. 448-454

(RU)

4 refs., 11 figs.

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THERMAL STRESSES; NONDESTRUCTIVE TESTING; MATERIALS TESTING; WEIGHT; CONTROL; CONFIGURATION CONTROL; CONTROL SYSTEMS; THICKNESS GAGES

The development of thermoelectric control systems for solving a variety of problems such as the classification of the structural states of steels and alloys, the identification of areas of high impurity content, and the presence of phase transformations has been analyzed

В статье рассмотрены вопросы разработки систем термоэлектрического контроля для решения широкого круга прикладных задач: классификации структурного состояния сталей и сплавов, выявление зон с высоким содержанием примеси, наличие фазовых превращений и другие проблемы

Two transistor clusters CMOS DICE cell layout design for a hardened CMOS 28 nm SRAM

S71

Stenin, V.Ya.; Stepanov, P.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU); NII Sistemnykh Issledovaniy RAN, Moscow (RU)), E-mail: vystenin@mephi.ru, pvstepanov.mephi@yandex.ru

Ehlementy pamyati na yachejkakh DICE s razdelennymi na dve gruppy tranzistorami dlya ispol'zovaniya v sboeustojchivyx KMOP 28 nm staticheskikh OZU

p. 455-461

(RU)

6 refs., 6 figs., 2 tabs.

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PHYSICS; PARTICLE DECAY; TOPOLOGY; MATHEMATICS; SIMULATION; COMPUTERIZED SIMULATION; TRANSISTORS

The larger the distance between two CMS transistor clusters, the more robust the hardened DICE SRAM to SEUs. Some versions of the DICE CMOS 28 nm SRAM block composition have been suggested with the minimum cluster distances of 1.15-1.4 nm

Приведены параметры базового элемента памяти с разными размерами КМОП транзисторов для проектирования блоков накопителей статических ОЗУ с повышенной устойчивостью к сбоям состояния при воздействии одиночных ядерных частиц. Даны сравнения с 6Т КМОП ячейками на транзисторах с теми же размерами

Simulation of the single event transients in a two transistor clusters CMOS 28-nm DICE cell

S71

Stenin, V.Ya. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU); NII Sistemnykh Issledovaniy RAN, Moscow (RU)), E-mail: vystenin@mephi.ru

КМОП 28-nm ячейка памяти DICE с разделенными на две группы транзисторами в нестационарном состоянии

p. 462-469

(RU)

12 refs., 6 figs.

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v. 3(4)

PHYSICS; PARTICLE DECAY; TOPOLOGY; MATHEMATICS; SIMULATION;
COMPUTERIZED SIMULATION; TRANSISTORS

Single event upsets of CMOS DICE cells depend on the cell layout. A new specific DICE cell layout design is based on two spaced transistor clusters of the DICE cell each consisting of the four transistors-one closed pair N-PMOS transistors and one opened pair N-PMOS transistors. The result of a single nuclear particle strike only on the one transistor cluster of the DICE cell is the single event transient but not the single-event upset

Разделение транзисторов ячейки памяти DICE на две группы повышает ее сбоеустойчивость за счет того, что воздействие одиночной ядерной частицы только на одну из этих групп переводит ячейку во временное нестационарное состояние, не вызывая сбоя ячейки. Чтобы реализовать этот эффект, надо обеспечить достаточное расстояние между двумя группами транзисторов на кристалле микросхемы

Comparison of techniques for damping high order modes in 800-MHz superconducting cavities

S72

Zobov, M.M. (*Natsional'naya Lab. Fraskati, Rome (IT)*); Kaminskij, V.I.; Kiseleva, E.A.; Mitrofanov, A.A.; Sobenin, N.P.; Shashkov, Ya.V. (*Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)*), E-mail: shashkovyv@mail.ru

Sravnenie metodov dempfirovaniya voln vysshikh tipov v sverkhprovodyashchem odnoyacheechnom rezonatore

p. 470-477

(RU)

5 refs., 17 figs., 3 tabs.

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PHYSICS; PARTICLES; CHARGED-PARTICLE REACTIONS; CHARGED PARTICLES;
DRELL MODEL; CERN LHC

The applications of 800 MHz harmonic cavities in both bunch lengthening and shortening regimes are under consideration and discussion in the framework of the High Luminosity LHC project

В настоящее время в рамках проекта Повышения светимости большого адронного коллайдера (High Luminosity LHC) рассматривается возможность применения сверхпроводящих резонаторов, работающих на частоте 800 МГц и предназначенных для изменения длины пучка

Calculation of a multi-bunch cavity for power supply

S43;S72

Savin, E.A.; Matsievskij, S.V.; Sobenin, N.P. (*Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)*); Zavadtsev, A.A. (*OOO NANO INVEST, Moscow (RU)*), E-mail: *es-abyss@yandex.ru*

Raschet mnogopuchkovogo rezonatora-generatora

p. 478-483

(RU)

3 refs., 17 figs., 4 tabs.

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PHYSICS; PARTICLES; CHARGED-PARTICLE REACTIONS; CHARGED PARTICLES; DRELL MODEL; CAVITY RESONATORS; ACCELERATORS; LINEAR ACCELERATORS

The system for a linear proton accelerator based on washed-diaphragm loaded structure is proposed and calculated. This structure converts power from six modulated electron beams to accelerating section feeding radio frequency power

Для питания линейного ускорителя протонов на основе ускоряющей структуры с шайбами и диафрагмами предложена и рассчитана структура компактного резонатора, преобразующего мощность шести модулированных электронных сгустков в СВЧ мощность для питания ускоряющей секции

Magnetic phase transitions in new multiferroic SmCr₃(BO₃)₄

S37

Boldyrev, K.N.; Dobretsova, E.A. (*Inst. Spektroskopii RAN, Troitsk (RU)*), E-mail: *kn.boldyrev@gmail.com*; Gavrilkin, S.Yu. (*Fizicheskij Inst. im. P.N. Lebedeva RAN, Moscow (RU)*); Mal'tsev, V.V.; Leonyuk, N.I. (*Moskovskij Gosudarstvennyj Univ. imeni M.V. Lomonosova, Moscow (RU)*)

Magnitnye fazovye perekhody v novom mul'tiferroike SmCr₃(BO₃)₄

p. 484-491

(RU)

19 refs., 8 figs.

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CHEMISTRY; ELECTROCHEMISTRY; MAGNETIC PROPERTIES; SPECTROSCOPY; BORATES; SAMARIUM

The optical spectra, as well as thermal and magnetic properties, of the compound SmCr₃(BO₃)₄, both pure and doped with 1% erbium, have been investigated in a wide temperature range. It has been found that SmCr₃(BO₃)₄ undergoes a cascade of phase transitions at temperatures (7.8#+-#0.5) K, (6.7#+-#0.5) K, and (4.3#+-#0.2) K

В широком диапазоне температур проведено исследование оптических спектров, тепловых и магнитных свойств кристаллов $\text{SmCr}_3(\text{BO}_3)_4$, как номинального состава, так и легированного 1% эрбия. Установлено, что $\text{SmCr}_3(\text{BO}_3)_4$ испытывает каскад фазовых превращений: при температурах $T_1 = 7.8 \pm 0.5$ К, $T_2 = 6.7 \pm 0.5$ К и $T_3 = 4.3 \pm 0.2$ К

Methods for recovering multiplex computer-synthesized fourier microholograms **S71;S97**

Odinokov, S.B.; Donchenko, S.S.; Betin, A.Yu.; Bobrinev, V.I. (Moskovskij Gosudarstvennyj Tekhnicheskij Univ. im. N.Eh. Baumana, Moscow (RU)), E-mail: sergey221990@gmail.com; Zlokazov, E.Yu. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU))

Metody schityvaniya mul'tipleksirovannykh komp'yuterno-sintezirovannykh mikrologogramm Fur'e

p. 496-500

(RU)

2 refs., 8 figs.

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v. 3(4)

OPTICS; MATHEMATICS; MATHEMATICAL SOLUTIONS; COMPUTERIZED SIMULATION; EXACT SOLUTIONS; DIFFERENTIAL EQUATIONS; FOURIER ANALYSIS; HOLOGRAPHY

A new type of the holographic memory based on the computer synthesis of Fourier holograms of data pages has been considered. Methods for recovering multiplexed one-dimensional structures have been proposed

Рассмотрен новый тип голографической памяти, основанный на компьютерном синтезе голограмм Фурье страниц данных. Предложены методы считывания мультиплексированных одномерных структур

Comparison of the characteristics of holograms synthesized with Fourier and Hartley transforms for application in incoherent correlators **S71;S97**

Rodin, V.G.; Starikov, S.N.; Cheremkhin, P.A.; Krasnov, V.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: holo@pico.mephi.ru

Sravnenie kharakteristik gologramm dlya nekogerentnykh korrelyatorov, sintezirovannykh s ispol'zovaniem preobrazovaniy Fur'e i Khartli

p. 501-509

(RU)

8 refs., 8 figs.

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v. 3(4)

OPTICS; MATHEMATICS; MATHEMATICAL SOLUTIONS; COMPUTERIZED SIMULATION; EXACT SOLUTIONS; FOURIER ANALYSIS; HOLOGRAPHY

The applicability of holograms synthesized with the Hartley transform in capacity of filters for incoherent optical correlators has been investigated. A comparative analysis of holograms synthesized with Fourier and Hartley transforms has been performed. Synthesized binary holograms have been displayed on spatial light modulator

Исследована применимость голограмм, синтезированных с использованием преобразования Хартли, в качестве фильтров в некогерентных оптических корреляторах. Проведен сравнительный анализ голограмм, синтезированных с использованием преобразований Фурье и Хартли, выполнен вывод синтезированных бинарных голограмм на пространственно-временной модулятор света

Nonlinear absorption of radiation in a liquid medium with nanoparticles

S71

Bryukhanova, T.N. (Tikhookeanskij Gosudarstvennyj Univ., Khabarovsk (RU)); Livashvili, A.I.; Krishtop, V.V.; Yakunina, M.I. (Dal'nevostochnyj Gosudarstvennyj Univ. Putej Soobshcheniya, Khabarovsk (RU)), E-mail: livbru@mail.ru

Nelinejnoe pogloshchenie izlucheniya v zhidkofaznoj srede s nanochastitsami
p. 510-512

(RU)

11 refs., 2 figs.

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v. 3(4)

PHYSICS; MATHEMATICS; SIMULATION; COMPUTERIZED SIMULATION;
RADIATION ABSORPTION ANALYSIS; BEAM CURRENTS; ELECTRONS

The thermal diffusion mechanism of nonlinear absorption of light in a liquid medium with nanoparticles has been investigated. A self-similar solution describing the dynamics of the concentration of nanoparticles has been obtained in the low-concentration approximation

Изучен термодиффузионный механизм нелинейного поглощения света в жидкофазной среде с наночастицами. В приближении малых концентраций получено автомодельное решение, описывающее динамику концентрации наночастиц

Numerical model of a stationary Alfven flow and magnetohydrodynamic flows close to it in coaxial canals in the presence of a longitudinal magnetic field

S70

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Chislennaya model' ustanovleniya statsionarnykh al'fvenovskikh i blizkikh k nim MGD-techenij v koaksial'nykh kanalakh v prisutstvii prodol'nogo magnitnogo polya

p. 517-528

(RU)

7 refs., 26 figs.

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v. 3(5)

PHYSICS; PLASMA ACCELERATION; ALFVEN WAVES; PLASMA WAVES;
MAGNETOHYDRODYNAMICS; FLUID FLOW

Stationary transonic super-Alfven, subsonic super-Alfven, supersonic sub-Alfven, and Alfven magnetohydrodynamic flows, obtained by numerical modeling of their build-up processes, in coaxial canals in the presence of longitudinal magnetic field have been considered

В работе рассматриваются стационарные трансзвуковые сверхальфвеновские, дозвуковые сверхальфвеновские, сверхзвуковые доальфвеновские и альфвеновские МГД-течения, полученные путем численного моделирования их процессов установления, в коаксиальных каналах в присутствии продольного магнитного поля

Simulation of differential response functions of the neutron technological control system of a solvent vessel from a local source of neutrons

S22

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Modelirovanie differentsial'nykh funktsij otklika sistemy nejtronnogo tekhnologicheskogo kontrolya apparata-rastvoritelya ot istochnika nejtronov

p. 529-531

(RU)

3 refs., 3 figs.

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v. 3(5)

REACTORS; CONTROL SYSTEMS; REACTOR CONTROL SYSTEMS; REMOTE CONTROL; RADIATION MONITORING; MONTE CARLO METHOD; NEUTRON DETECTION

In order to forecast the parameters of the neutron process monitoring system, a computer model of the dissolver with the neutron detection blocks has been developed. The results of the computer model verification based on the measurement results of differential response functions of neutron detectors using the fast-neutron source on the RPSK-type dissolver have been presented

Для прогнозирования показаний системы нейтронного технологического контроля была создана компьютерная модель аппарата-растворителя с блоками детектирования нейтронов. В работе представлены результаты верификации компьютерной модели с использованием результатов измерений дифференциальных функций отклика блоков детектирования нейтронов от источника быстрых нейтронов на аппарате-растворителе

Introduction of computerized in-process monitoring systems for spent fuel handling

S11

Podgornov, V.A. (FGUP RFYaTs-VNII Tekhnicheskoy Fiziki imeni Akademika E.I. Zababakhina, Snezhinsk (RU)), E-mail: dep640@vniitf.ru

Vnedrenie avtomatizirovannykh sistem tekhnologicheskogo kontrolya pri obrashchenii s OYaT
p. 532-537

(RU)

8 refs., 4 figs.

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v. 3(5)

NUCLEAR POWER PLANTS; SPENT FUELS; DRY STORAGE; SPENT FUEL STORAGE; LWGR TYPE REACTORS; WWER TYPE REACTORS; REACTOR MONITORING SYSTEMS

Computerized in-process monitoring and accountability systems of nuclear materials providing the computerized monitoring of processes in shielding vaults of Leningrad and Kursk NPPs when moving a spent nuclear fuel into metal-concrete containers for dry storing are presented in the report. A hardware and software system for reading technological numbers of an ampoule, case and canister in a case collecting chamber of an irradiated nuclear fuel storage facility of RBMK-1000 and VVER-1000 reactors at the Mining and Chemical Combine is also described

В работе представлены автоматизированные системы оперативно-технического учета и контроля ядерных материалов, обеспечивающие в защитных камерах Ленинградской и Курской АЭС автоматизированный контроль за технологическими процессами при переводе отработавшего ядерного топлива на сухое хранение в металло-бетонные контейнеры, и аппаратно-программный комплекс считывания технологических номеров ампулы, чехла и пенала в камере комплектации пеналов хранилища облученного ядерного топлива реакторов РБМК-1000 и ВВЭР-1000

Multi-attribute evaluation and choice of alternatives for surplus weapons-usable plutonium disposition at uncertainty

S11

Kosterev, V.V.; Bolyatko, V.V.; Khajretdinov, S.I. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: vvkosterev@mephi.ru; Averkin, A.N. (Vychislitel'nyj Tsentr RAN im. A.A. Dorodnitsyna, Moscow (RU))

Mnogokriterial'naya otsenka i vybor al'ternativ utilizatsii izlishkov oruzhejnogo plutoniya v usloviyakh neopredelennosti

p. 538-547

(RU)

4 refs., 7 figs., 3 tab.

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NUCLEAR FACILITIES; WASTE MANAGEMENT; PLUTONIUM; NUCLEAR FUELS; PLUTONIUM RECYCLE; WASTE PRODUCT UTILIZATION

The problem of surplus weapons-usable plutonium disposition is formalized as a multi-attribute problem of a choice of alternatives from a set of possible alternatives under fuzzy conditions. Evaluation and ordering of alternatives for the surplus weapons-usable plutonium disposition and sensitivity analysis are carried out at uncertainty

Проблема обращения с избыточным плутонием математически формализована как многокритериальная задача выбора альтернатив из набора возможных в нечетких условиях. Проведены оценка и ранжирование альтернатив утилизации излишков оружейного плутония в условиях неопределенности, а также анализ чувствительности

Influence of surface roughness of metallic films on the accuracy of the measurement of the thickness by a profilometer

S36

Vanyukhin, K.D.; Voronova, A.A.; Evseeva, E.M.; Eremin, I.S.; Zakharchenko, R.V.; Kargin, N.I.; Kolentsova, O.S.; Sejdman, L.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: seid1@yandex.ru

Vliyanie sherokhovatosti poverkhnosti metallicheskih plenok na tochnost' izmereniya ikh tolshchiny s pomoshch'yu profilometra

p. 548-555

(RU)

7 refs., 8 figs., 1 tab.

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METALS; THIN FILMS; GOLD; ALUMINIUM; NICKEL; TITANIUM; ATOMIC FORCE MICROSCOPY; THICKNESS GAGES

Gold, aluminum, nickel, and titanium films obtained by thermal evaporation in vacuum have been studied. It has been shown, that the difference between the geometric and physical thicknesses of polycrystalline metallic films is small, but important quantity as compared to the thickness of the film should be taken into account in precise measurements

Были исследованы пленки золота, алюминия, никеля и титана, полученные термическим испарением в вакууме. Показано, что разность геометрической и физической толщин поликристаллических пленок металлов составляет небольшую, но заметную величину по сравнению с толщиной пленки, и эта разность должна учитываться в прецизионных измерениях с помощью профилометра

Remote monitoring of physical quantities by a sensor on surface acoustic waves

S71

Karapet'yan, G.Ya.; Dneprovskij, V.G. (NII Mekhaniki i Prikladnoj Matematiki Uzhnogo Federal'nogo Univ., Rostov-na-Donu (RU)); Kataev, V.F.; Ermolaeva, N.V. (Volgodonskij Inzhenerno-Tekhnicheskij Inst. NIYaU MIFI, Volgodonsk (RU)), E-mail: ermolv@mail.ru

Distantionnoe izmerenie fizicheskikh velichin s pomoshch'yu datchika na poverkhnostnykh akusticheskikh volnakh

p. 556-562

(RU)

2 refs., 12 figs.

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MECHANICS; CLASSICAL MECHANICS; PHYSICAL PROPERTIES; DENSITY;
ACOUSTICS; SOUND WAVES

A device for remote monitoring of physical quantities (temperature, pressure, density, etc.) has been developed with the use of radio frequency identification technologies and surface acoustic waves

Описано устройство для дистанционного мониторинга физических величин (температура, давление, плотность и др.), работающего с применением технологий радиочастотной идентификации и поверхностных акустических волн

Two-phase 28-nm CMOS inverter as a single event transient immunity logic element

S71

Katunin, Yu.V.; Stenin, V.Ya. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU); NII Sistemnykh Issledovaniy RAN, Moscow (RU)), E-mail: yu.v.katunin@gmail.com

Dvukhfaznyj 28 nm КМОП-инвертор как элемент повышенной помехоустойчивости к эффектам воздействия одиночных ядерных частиц

p. 563-570

(RU)

6 refs., 6 figs., 1 tab.

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PHYSICS; PARTICLE DECAY; INVERTERS; SIMULATION; COMPUTERIZED
SIMULATION; TRANSIENTS

The single-event transient immunity of a two-phase 28-nm CMOS inverter depends strongly on the capacitance between their differential outputs. When these capacitances of the differential coupling buses are below the threshold values, the single-event transient immunity of the two-phase 28-nm CMOS inverters is high. Any noise pulses are blocked by the two-phase CMOS inverter when the differential coupling capacitance is below the threshold value

Помехоустойчивость двухфазной 28 нм КМОП комбинационной логики (на примере двухфазного инвертора) к воздействию одиночных ядерных частиц существенно выше, если конструктивная емкость между выходами двухфазного инвертора меньше порогового значения. В этом случае на следующий двухфазный элемент поступает ослабленная помеха, которая не изменяет его логического состояния, а переводит в заблокированное состояние на длительность помехи

Application of a photorefractive bismuth titanate crystal for the construction of adaptive fiber optic seismic receivers

S71

Kamenev, O.T.; Romashko, R.V. (Inst. Avtomatiki i Protsessov Upravleniya Dal'nevostochnogo Otdeleniya RAN, Vladivostok (RU); Dal'nevostochnyj Federal'nyj Univ., Vladivostok (RU)); Petrov, Yu.S.; Kolchinskij, V.A. (Inst. Avtomatiki i Protsessov Upravleniya Dal'nevostochnogo Otdeleniya RAN, Vladivostok (RU)), E-mail: vladko.88@mail.ru

Primenenie fotorefraktivnogo kristalla titanata vismuta dlya postroeniya adaptivnykh volokonno-opticheskikh sejsmopriemnikov

p. 585-589

(RU)

6 refs., 6 figs.

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OPTICS; FIBER OPTICS; CRYSTALS; PHOTOREACTIVATION; TITANATES; HOLOGRAPHY

The possibility of using a photorefractive Bi₁₂TiO₂₀ crystal to create an adaptive fiber optic geophone has been studied. It is shown that this crystal provides efficient phase demodulation in an adaptive interferometer scheme at low optical powers

В работе изучена возможность применения фоторефрактивного кристалла Bi₁₂TiO₂₀ для построения адаптивных волоконно-оптических сейсмоприемников. Показано, данный кристалл обеспечивает эффективную фазовую демодуляцию в схеме адаптивного интерферометра при низких значениях мощности оптического излучения

Application of invariant correlation pattern recognition for quality inspection of security hologram master-matrices

S71

Kolyuchkin, V.V.; Zherdev, A.Yu.; Lushnikov, D.S.; Odinsonov, S.B. (Moskovskij Gosudarstvennyj Tekhnicheskij Univ. im. N.Eh. Bauman, Moscow (RU)), E-mail: vkoluchkin@yandex.ru; Zlokazov, E.Yu. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU))

Primenenie metoda invariantnogo korrelyatsionnogo raspoznavaniya obrazov dlya kontrolya kachestva master-matrits zashchitnykh gologramm

p. 590-595

(RU)

3 refs., 7 figs.

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PHYSICS; MATHEMATICS; MATHEMATICAL SOLUTIONS; COMPUTERIZED SIMULATION; OPTICS; HOLOGRAPHY

Features of a correlation algorithm underlying matrix master quality rating of security holograms have been presented. The method has been tested on real samples of the master matrices of security holograms

Изложены особенности корреляционного алгоритма, лежащего в основе метода оценки качества мастер-матриц защитных голограмм. Приведены результаты апробации алгоритма на реальных образцах мастер-матриц защитных голограмм

Peculiarities of photoinduced light scattering in lithium niobate crystals in convergent and divergent beams

S71

Maksimenco, V.A. (Dal'nevostochnyj Gosudarstvennyj Univ. Putej Soobshcheniya, Khabarovsk (RU)), E-mail: mva30@mail.ru

Osobennosti fotoindutsirovannogo rasseyaniya sveta v kristallakh niobata litiya v skhodyashchikhsya i raskhodyashchikhsya puchkakh

p. 596-599

(RU)

6 refs., 5 figs.

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PHYSICS; KINETICS; MATHEMATICS; MATHEMATICAL SOLUTIONS;
COMPUTERIZED SIMULATION; OPTICS; HOLOGRAPHY; CRYSTALS

Some features of the scattering indicatrix have been revealed in photoinduced light scattering in doped lithium niobate crystals irradiated by convergent and divergent pump beams. These features have been attributed to the character of the redistribution of a photoinduced volume charge in the illuminated region of the crystal and, correspondingly, to the configuration of a photoinduced electric field

При наблюдении фотоиндуцированного рассеяния света (ФИРС) в легированных кристаллах ниобата лития обнаружены некоторые особенности формирования картин ФИРС в случае падения на кристалл сходящихся и расходящихся пучков накачки. Обнаруженные особенности связываются с характером перераспределения фотогенерированного объемного заряда в области освещения кристалла и, соответственно, с конфигурацией фотонаведенного электрического поля

Mathematical and software tools for models of investment and innovation development of financial and industrial corporate structures

S97

Kosachev, Yu.V.; Rumyantsev, V.P.; Shipulin, D.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: condords@gmail.com

Matematicheskoe i programmnnoe obespechenie modelej investitsionno-innovatsionnogo razvitiya finansovo-promyshlennykh korporativnykh struktur

p. 604-608

(RU)

6 refs., 4 figs.

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MATHEMATICS; MATHEMATICAL MODELS; MATHEMATICAL SOLUTIONS;
CALCULATION METHODS; ECONOMICS; INCOME

The operation of the software that solves the problem of calculating the integral total discounted incomes of the financial and industrial corporate structure, as well as the search for the optimal control for each of them depending on the input parameters characterizing the activities of participants has been described in the paper

В статье описывается работа программного продукта, решающего задачу расчета интегральных суммарных дисконтированных доходов участников финансово-промышленной корпоративной структуры, а также поиска оптимального управления для каждого из них в зависимости от входных параметров, характеризующих деятельность участников

Production of electron-positron pairs in oriented single crystals

S72

Gal'per, A.M.; Kalashnikov, N.P.; Mulyarchik, E.I.; Ol'chak, A.S. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: kalash@mephi.ru

Rozhdenie ehlektron-pozitronnykh par v orientirovannykh monokristallakh

p. 613-617

(RU)

9 refs., 7 figs.

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PHYSICS; PARTICLE BEAMS; ELECTRON PAIRS; POSITRON BEAMS; PHOTONS;
GAMMA RADIATION; ELECTRON-POSITRON INTERACTIONS

The orientational dependence of the gamma-photon-induced pair production in a single crystal has been considered in the article. High angle resolution can be achieved using a single crystal as an effective converter of photons into electron-positron pairs

В работе рассматривается ориентационная зависимость рождения пар жестким гамма-квантом в монокристалле. Предлагается использовать эффект когерентного рождения пар в режиме каналирования как эффективный конвертор фотонов в электрон-позитронные пары

Mathematical modeling of the uranium dioxide powder compaction process at manufacture of nuclear fuel pellets

S97

Bakhteev, O.A.; Lysikov, A.V.; Mikheev, E.N. (OAO VNIINM im. A.A. Bochvara, Moscow (RU)); Zhiganov, A.N.; Istomin, A.D.; Matolygin, A.A.; Noskov, M.D.; Cheglov, A.A. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), E-mail: agan@ssti.ru

Matematicheskoe modelirovanie protsessa pressovaniya poroshka dioksida urana pri izgotovlenii tabletok yadernogo topliva

p. 618-622

(RU)

8 refs., 6 figs.

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MATHEMATICS; MATHEMATICAL MODELS; COMPUTERIZED SIMULATION;
NUCLEAR FUELS; FUEL PELLETS; URANIUM DIOXIDE

The mathematical elastoplastic model of ceramic powder compaction has been proposed. Simulation results of the stressed-deformed state of the compacted powder are presented in the paper. According to the simulation results, the main factors affecting the fuel pellet density distribution are friction between the powder and die and geometry of punches

Предложена математическая модель прессования керамического порошка в упруго-пластичной постановке. С помощью модели проведено исследование процесса прессования топливной таблетки из порошка диоксида урана. В статье приведены результаты расчетов напряженно-деформированного состояния прессовки. Показано, что основными факторами, влияющими на распределение плотности в топливной таблетке, являются трение о стенки пресс-формы и иглу, а также особенности геометрии пуансонов

Features of self-organization of adiabatic shear bands in copper and steel with allowance for the strain hardening effect

S97

Kudryashov, N.A.; Ryabov, P.N.; Zakharchenko, A.S. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: pnryabov@mephi.ru

Osobennosti samoorganizatsii polos adiabaticeskogo sdviga v bezkislородной medi i stali s uchetom protsessov deformatsionnogo uprochneniya

p. 623-634

(RU)

15 refs., 10 figs., 2 tabs.

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MATHEMATICS; MATHEMATICAL LOGIC; CALCULATION METHODS; FRACTURES;
DEFORMATION; CRACKS; ADIABATIC PROCESSES

The self-organization process of adiabatic shear bands in copper and steel has been considered in the paper. A mathematical model of this process has been formulated. A numerical approach based on the Courant-Isaacson-Rees scheme has been developed and verified in application to two test problems

В работе рассмотрены процессы самоорганизации полос адиабатического сдвига в безкислородной меди и стали. Сформулирована математическая модель данного процесса. На основе схемы Куранта-Изаксона-Риса разработан численный алгоритм и проведена его верификация на двух тестовых задачах

Non-linear differential equations and the renormalization-group method **S97**

Teodorovich, Eh.V. (Inst. Problem Mekhaniki im. A.Yu. Ishlinskogo RAN, Moscow (RU))

Nelinejnye differentsial'nye uravneniya i metod renormalizatsionnoj gruppy

p. 635-640

(RU)

13 refs.

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MATHEMATICS; DIFFERENTIAL EQUATIONS; MATHEMATICAL SOLUTIONS;
NONLINEAR PROBLEMS; RENORMALIZATION; SYMMETRY GROUPS

The paper aims at a demonstration of how, in some cases, the use of the renormalization-group method enables one to find an exact self-similar solution to a non-linear equation. The idea of the method and the technique of its application are illustrated by the example of solving a certain non-linear equation

Целью работы является демонстрация того, как использование метода ренормализационной группы позволяет в ряде случаев найти точное автомодельное решение нелинейного уравнения. Идея метода и техника его применения иллюстрируются на примере некоторого нелинейного уравнения

Nonlinear evolution equations for waves in a liquid with gas bubbles with allowance for mutual influence of bubbles **S97**

Kudryashov, N.A.; Sinel'shchikov, D.I. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: DISinelshchikov@mephi.ru

Nelinejnye ehvolyutsionnye uravneniya dlya opisaniya volnovykh protsessov v zhidkosti s puzyr'kami gaza pri uchete vzaimnogo vliyaniya puzyr'kov

p. 641-645

(RU)

15 refs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; DIFFERENTIAL EQUATIONS;
NONLINEAR PROBLEMS; EQUATIONS; BUBBLES

Propagation of nonlinear waves in a liquid with gas bubbles has been studied taking into account mutual influence of bubbles. Nonlinear evolution equations have been obtained for description of wave processes at different time and length scales

В работе рассматривается распространение волн в жидкости с пузырьками газа при учете взаимного влияния пузырьков. Получены нелинейные эволюционные уравнения, описывающие волновые процессы в жидкости с пузырьками газа на различных пространственных и временных масштабах

On the basis of a system of the eigenfunctions and associated functions of operators generated by differential equations of the second order with a fractional derivative in the lowest term

S97

Aleroev, T.S. (Natsional'nyj Issledovatel'skij Univ. Moskovskij Gosudarstvennyj Stroitel'nyj Univ., Moscow (RU)), E-mail: aleroev@mail.ru; Aleroeva, Kh.T. (Moskovskij Tekhnicheskij Univ. Svyazi i Informatiki, Moscow (RU))

O bazisnosti sistem sobstvennykh i prisoedinennykh funktsij operatorov, porozhdennykh differentsial'nymi uravneniyami vtorogo poryadka s drobnoy proizvodnoj v mladshem chlene

p. 646-648

(RU)

8 refs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; EQUATIONS; DIFFERENTIAL EQUATIONS; STURM-LIOUVILLE EQUATION; NONLINEAR PROBLEMS; FUNCTIONS

Authors have proved that the system of the eigenfunctions of an operator generated by a differential expression of the second order with a fractional derivative in the lowest term and Sturm-Liouville boundary conditions has a basis nature

Доказана базисность системы собственных функций оператора, порожденного дифференциальным выражением второго порядка с дробной производной в младшем члене и краевыми условиями типа Штурма-Лиувилля

Solution of the Dirichlet boundary value problem for the polyharmonic equation in a ball

S97

Karachik, V.V. (Yuzhno-Ural'skij Gosudarstvennyj Univ. (Natsional'nyj Issledovatel'skij Univ.), Chelyabinsk (RU)), E-mail: karachik@susu.ru

Reshenie zadachi Dirikhle dlya poligarmonicheskogo uravneniya v share

p. 649-655

(RU)

16 refs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; DIFFERENTIAL EQUATIONS;
EQUATIONS; DIRICHLET PROBLEM; BOUNDARY-VALUE PROBLEMS

A method for the representation of the classical solution of the classical Dirichlet boundary value problem for the homogeneous polyharmonic equation in a unit ball has been presented

Для классической задачи Дирихле для однородного полигармонического уравнения в единичном шаре приводится метод представления классического решения задачи

The structure of solutions of the Navier-Stokes equations

S97

Koptev, A.V. (Gosudarstvennyj Univ. Morskogo i Rechnogo Flota imeni Admirala S.O. Makarova, Sankt-Peterburg (RU)), E-mail: Alex.Koptev@mail.ru

Struktura reshenij uravnenij Nav'e-Stoksa

p. 656-660

(RU)

5 refs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; DIFFERENTIAL EQUATIONS;
NONLINEAR PROBLEMS; EQUATIONS; NAVIER-STOKES EQUATIONS; INTEGRALS;
INTEGRAL EQUATIONS

Authors present proposed derivation and justification of structural formulas for solutions of the Navier-Stokes equations for incompressible viscous fluid flow. Cases of 2D and 3D equations are investigated

В работе приводятся вывод и обоснование структурных формул для решений уравнений Навье-Стокса для движения вязкой несжимаемой жидкости. Рассматриваются случаи 2D- и 3D-уравнений

Study of the stability of solutions of some classes of initial boundary value problems of aerohydroelasticity

S97

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Issledovanie ustojchivosti reshenij nekotorykh klassov nachal'no-kraevykh zadach aehrogidrouprugosti

p. 661-670

(RU)

23 refs., 6 figs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; NONLINEAR PROBLEMS;
EQUATIONS; LYAPUNOV METHOD; CALCULATION METHODS; STABILITY;
DYNAMICS

The stability of several classes of constructions containing elastic elements has been studied. A nonlinear mathematical model of a vibration equipment device intended for the intensification of technological processes, for example, the stirring process, has been considered as an example

Проведено исследование устойчивости нескольких классов конструкций, содержащих упругие элементы. В качестве примера рассмотрена нелинейная математическая модель устройства, относящегося к вибрационной технике, которое предназначено для интенсификации технологических процессов

Features of the effect of the parameters of resonance systems with different configurations on the current-voltage characteristics of resonant-tunneling nanostructures in a subterahertz frequency range

S71

Aleksanyan, A.A.; Volchkov, N.A.; Dravin, V.A.; Kazakov, I.P.; Karuzskij, A.L.; Murzin, V.N.; Perestoronin, A.V.; Tskhovrebov, A.M.; Shmelev, S.S. (Fizicheskij Inst. im. P.N. Lebedeva RAN, Moscow (RU)), E-mail: karuz@sci.lebedev.ru

Osobnosti vliyaniya parametrov rezonatornykh sistem razlichnykh konfiguratsij na VAKh rezonansno-tunnel'nykh nanostruktur v diapazone subteragertsovykh chastot
p. 671-679

(RU)

12 refs., 17 figs., 3 tabs.

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PHYSICS; RESONANCE; NANOSTRUCTURES; SEMICONDUCTOR DEVICES;
SEMICONDUCTOR DIODES; SUPERCONDUCTIVITY; TUNNEL DIODES

Features of the effect of a subterahertz microwave field on the current characteristics of a resonant-tunneling diode in resonance systems with different configurations have been studied. Changes in the current characteristics of the resonant-tunneling diode under variation of the electrophysical parameters of dielectric and microstrip resonators, in particular high-Q-factor superconducting microstrip resonators, have been experimentally studied and analyzed

Исследованы закономерности влияния субтерагерцового СВЧ-поля на токовые характеристики резонансно-туннельного диода (РТД) в резонаторных системах различной конфигурации. Экспериментально изучены и проанализированы изменения токовых характеристик РТД в зависимости от электрофизических параметров диэлектрических и микрополосковых резонаторов, в том числе высокодобротных сверхпроводящих микрополосковых резонаторов

Interaction of high-power nanosecond electric pulses with an array of carbon nanotubes

S71

Akhlyustina, E.A.; Peshkov, D.A.; Akhlyustin, L.M.; Sadykov, N.R. (Snezhinskij Fiziko-Tekhnicheskij Inst. NIYaU MIFI, Snezhinsk (RU)), E-mail: elena17led11@mail.ru

Vzaimodejstvie moshchnykh ehlektricheskikh impul'sov nanosekundnoj dlitel'nosti s massivom uglerodnykh nanotrubok

p. 680-685

(RU)

12 refs., 3 figs.

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PHYSICS; NANOSTRUCTURES; NANOTUBES; CARBON NANOTUBES; MICROWAVE RADIATION; INTERACTIONS

A nonlinear current induced in carbon nanotubes with metallic conductivity and in graphene nanoribbons by an alternating electric field with a subnanosecond width of the leading edge in the presence of a static electric field has been theoretically studied. The parameters of the static electric field for simple carbon nanotubes coincide with the parameters of nanosecond electric pulses

Теоретически изучается нелинейный ток, индуцированный в углеродных нанотрубках (УНТ) с металлическим типом проводимости и в графеновых нанолентах переменным электрическим полем, с субнаносекундной шириной переднего фронта при наличии постоянного электрического поля. Для простых УНТ параметры постоянного электрического поля совпадали с параметрами наносекундных электрических импульсов

Multipacting simulation for a superconducting Spoke cavity

S71

Gusarova, M.A.; Petrushina, I.I. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: petrushinaira@gmail.com; Zvyagintsev, V.L.; Laxdal, R.E. (Canada's National Lab. for Particle and Nuclear Physics, Vancouver (CA)); Cha, H.J. (Inst. for Basic Science, Rare Isotope Science Project, Daejeon (KR))

Raschet mul'tipaktornogo razryada v sverkhprovodyashchem uskorayushchem rezonatore struktury spouk

p. 686-692

(RU)

6 refs., 11 figs.

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PHYSICS; RESONANCE; RESONATORS; CAVITY RESONATORS; ACCELERATORS; LINEAR ACCELERATORS

The results of multipacting prediction for a Spoke cavity are presented. Threshold voltages, features of the stable electron trajectories, and areas of the structure undergoing a multipactor discharge have been obtained by two codes

Представлены результаты работы по исследованию возможности возникновения мультипакторного разряда в сверхпроводящем ускоряющем резонаторе типа Spoke. С помощью двух программ численного моделирования определены уровни мультипакторного разряда, изучены характерные особенности стабильных траекторий движения электронов, выявлены подверженные разряду области геометрии резонатора

Generation of hydrogen in heterogeneous compositions with aluminum and burnt lime

S36

Milinchuk, V.K.; Belozеров, V.I.; Anan'eva, O.A.; Pasevich, O.F.; Laricheva, T.E.; Kunitsyna, T.E. (Obninskij Inst. Atomnoj Ehnergetiki NIYaU MIFI, Obninsk (RU)), E-mail: milinchuk@iate.obninsk.ru

Generatsiya vodoroda geterogennymi kompozitsiyami s alyuminiem i negashenoj izvest'yu p. 477-481

(RU)

12 refs., 2 figs., 2 tabs.

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PHYSICAL CHEMISTRY; PHYSICAL METALLURGY; HYDROGEN PRODUCTION; ALUMINIUM; ALUMINIUM OXIDES; CALCIUM OXIDES

The process of hydrogen generation in heterogeneous compositions containing aluminum powder, burnt lime and water with different salinity has been studied. It has been found that burnt lime removes a protective layer of aluminum oxide from the surface of aluminum and converts it to an active state, effectively regenerating hydrogen from water. The investigated heterogeneous compositions are environmentally sound, energy-efficient, and promising as an alternative source of hydrogen fuel

Изложены результаты исследований процесса генерации водорода в гетерогенных композициях, содержащих порошок алюминия, негашеную известь и воду с различным солесодержанием. Установлено, что негашеная известь удаляет с поверхности алюминия защитный слой оксида алюминия и переводит его в активное состояние, эффективно восстанавливающее водород из воды. Исследованные гетерогенные композиции являются экологически безопасными, энергосберегающими и перспективными в качестве альтернативного источника водородного топлива

On the basis property of eigenfunctions of boundary value problems for second-order fractional differential equations

S97

Aleroev, T.S. (Moskovskij Gosudarstvennyj Stroitel'nyj Univ., Moscow (RU)), E-mail:

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(RU))

O bazisnosti sobstvennykh funktsij kraevykh zadach dlya differentsial'nykh uravnenij vtorogo poryadka s drobnou proizvodnoj

p. 482-484

(RU)

9 refs.

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MATHEMATICS; MATHEMATICAL MODELS; EQUATIONS; DIFFERENTIAL EQUATIONS; FUNCTIONS; EIGENFUNCTIONS

It has been proven that the operator generated by the differential expression of the second order with a fractional derivative in a lower term does not generate associated functions and that the system of the eigenfunctions of this operator forms a basis $L_2(0, 1)$

Доказано, что оператор, порожденный дифференциальным выражением второго порядка с дробной производной в младшем члене, не порождает присоединенных функций, и система собственных функций этого оператора образует базис в $L_2(0, 1)$

Analytical solutions of the extended Boussinesq equation

S97

Kudryashov, N.A.; Volkov, A.K. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: nakudr@gmail.com, alexander.k.volkov@ya.ru

Analiticheskie resheniya obobshchennogo uravneniya Bussineska

p. 485-488

(RU)

7 refs., 2 figs.

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MATHEMATICS; MATHEMATICAL MODELS; ANALYTICAL SOLUTION; EXACT SOLUTIONS; EQUATIONS; MATHEMATICAL LOGIC

The extended Boussinesq equation for the description of the Fermi-Pasta-Ulam problem has been studied and analyzed with the Painleve test. It has been shown that the equation does not pass the Painleve test, but the necessary condition for the existence of meromorphic solutions is satisfied

Рассмотрено обобщенное уравнение Буссинеска для описания проблемы Ферми-Паста-Улама. Проведен анализ данного уравнения на свойство Пенлеве. Показано, что уравнение не проходит тест на свойство Пенлеве, однако выполнено необходимое условие для существования мероморфных решений

Analytical solutions of the equation for the stationary curvature of a planar

elastic rod

S97

Sinel'shchikov, D.I. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: disinelshchikov@mephi.ru

Analiticheskie resheniya uravneniya dlya opisaniya statsionarnogo izgiba ploskogo uprugogo sterzhnya

p. 489-492

(RU)

10 refs., 1 fig.

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MATHEMATICS; ANALYTICAL SOLUTION; MATHEMATICAL MODELS; EXACT SOLUTIONS; EQUATIONS; FUNCTIONS; WEIERSTRASS FUNCTIONS

The second-order nonlinear differential equation for the description of the stationary curvature of a planar elastic rod is considered. It is shown that this equation with arbitrary parameters can be transformed to a second-order equation whose general solution is expressed in terms of the Weierstrass elliptic function

Рассматривается нелинейное дифференциальное уравнение второго порядка, используемое для описания стационарного изгиба плоского упругого стержня. Показано, что для произвольных значений параметров данное уравнение может быть сведено к уравнению второго порядка, общее решение которого выражается через эллиптическую функцию Вейерштрасса

Exact solutions of some nonlinear ordinary differential-difference equations

S97

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

Tochnye resheniya nekotorykh nelinejnykh obyknovennykh differentsial'no-raznostnykh uravnenij

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(RU)

66 refs.

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MATHEMATICS; MATHEMATICAL MODELS; ANALYTICAL SOLUTION; EXACT SOLUTIONS; EQUATIONS; DIFFERENTIAL EQUATIONS; TRAVELLING WAVES

The paper deals with nonlinear ordinary differential-difference equations of the first and second order. All the solutions obtained involve free parameters and may be suitable for solving certain model problems as well as testing numerical and approximate analytical methods for similar and more complex nonlinear differential-difference equations

Рассматриваются нелинейные обыкновенные дифференциально-разностные уравнения первого и второго порядка. Все решения содержат свободные параметры и могут быть использованы для решения некоторых модельных задач и тестирования численных и приближенных аналитических методов решения аналогичных и более сложных нелинейных дифференциально-разностных уравнений

Exact solutions for three-dimensional potential and vorticity Couette flows of an incompressible viscous fluid

S97

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Tochnye resheniya trekhmernykh potentsial'nykh i zavikhrennykh techenij Kuehtta vyazkoj neszhimaemoj zhidkosti

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(RU)

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MATHEMATICS; ANALYTICAL SOLUTION; EXACT SOLUTIONS; EQUATIONS; COUETTE FLOW; VISCOUS FLOW; NAVIER-STOKES EQUATIONS; DIFFERENTIAL EQUATIONS; VORTEX FLOW; BERNOULLI LAW

A new exact solution of the Navier-Stokes equations describing the motion of a viscous incompressible fluid has been obtained. The solution has been constructed as a superposition of Couette flows for each of the components of the velocity. The flow has been analyzed. It has been shown that this solution is potential. Some generalizations of the proposed solution have been considered

Найдено новое точное уравнение Навье-Стокса, описывающее движение вязкой несжимаемой жидкости. Решение построено в виде суперпозиции течений Куэтта для каждой компоненты вектора скорости. Проведен анализ течения. Показано, что это решение является потенциальным. Рассмотрены некоторые обобщения предложенного решения

Numerical simulation of the gas driven fracture propagation

S97

Kudryashov, N.A.; Polekhin, A.V.; Ryabov, P.N. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: kudryashov@mephi.ru

Chislennoe modelirovanie razvitiya provodyashchikh treshchin pod dejstviem dvizhushchegosya v nikh gaza pri provedenii gidrorazryva plasta

p. 507-517

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MATHEMATICS; MATHEMATICAL MODELS; ANALYTICAL SOLUTION; EXACT SOLUTIONS; NUMERICAL SOLUTION; COMPUTERIZED SIMULATION; SHALE GAS; CRACKS; CRACK PROPAGATION

The process of the gas driven fracture propagation has been studied. The mathematical model of this physical process has been proposed. The numerical algorithm has been developed and the mathematical simulation of the process of the gas driven fracture propagation has been performed

В данной работе проводится изучение процесса эволюции плоской и дискообразной проводящих трещин, возникающих в породе в ходе проведения гидроразрыва пласта. Приведена математическая модель, описывающая данный физический процесс. Разработан численный алгоритм и проведено математическое моделирование процесса развития трещин под действием движущегося в них изотермического сжимаемого газа

Seiches in a reservoir under ice

S97

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

Stoyachie volny v vodoeme pod sloem l'da

p. 518-522

(RU)

4 refs., 1 fig.

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MATHEMATICS; MATHEMATICAL MODELS; ANALYTICAL SOLUTION; EXACT SOLUTIONS; APPROXIMATIONS; OSCILLATIONS

One-dimensional seiches in a reservoir under ice have been studied in the linear approximation. A thin plate with a constant thickness under horizontal constant load has been used to describe the dynamics of the ice layer. The proposed system has been solved and the spectrum of seiches has been obtained

Изучаются одномерные стоячие волны в водоеме под слоем льда в линейном приближении. Для описания динамики слоя льда используется модель тонкой пластины постоянной толщины, находящейся под постоянной горизонтальной нагрузкой. Рассматриваемая система проинтегрирована, получен спектр стоячих волн

Calculations of the gas-dynamic parameters in the bottom part of a tornado

S97

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Raschety gazodinamicheskikh parametrov v pridonnoj chasti tornado

p. 523-527

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6 refs., 6 figs., 4 tabs.

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MATHEMATICS; MATHEMATICAL MODELS; ANALYTICAL SOLUTION; COMPUTER CALCULATIONS; COMPUTERIZED SIMULATION; CORIOLIS FORCE; TORNADOES

Prof. Sergej P. Bautin proposed and justified a new scheme of the origin and functioning of natural upward flows such as swirling tornadoes and tropical cyclones. All gasdynamic parameters in the bottom parts of tornadoes with various intensities have been calculated in this work on the basis of this scheme using data from the Fujita scale

Профессором Баутиным С.П. предложена и обоснована ранее не встречавшаяся схема возникновения и функционирования природных восходящих закрученных потоков (ВЗП) типа торнадо и тропического циклона. В данной работе на основе этой схемы и исходя из данных шкалы Фуджиты рассчитаны значения всех газодинамических параметров в придонных частях торнадо различной интенсивности

Noise immunity of 28-nm CMOS decoders

S97

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Pomekhoustojchivost' 28-nm KMOP dekodeirov

p. 528-536

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6 refs., 7 figs., 2 tabs.

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PHYSICS; MATHEMATICAL MODELS; MATHEMATICS; EQUATIONS; COMPUTER CODES; COMPUTERIZED SIMULATION

The noise immunity of 28-nm CMOS decoders against single nuclear particle strikes depends on transient processes in an error vector evaluation unit (error syndrome vector decoder). The output AND or NO combinational logic of decoders ensures partial logical masking of noise pulses. With the use of a nonstandard topology, the same logic can ensure the mutual compensation of the action of charges at their separation between drain regions of adjacent transistors

Помехоустойчивость 28-нм КМОП декодеров к эффектам воздействия одиночных ядерных частиц зависит от переходных процессов в блоке вычисления вектора ошибки (дешифраторе вектора синдрома ошибки). Выходная комбинационная логика И или ИЛИ-НЕ дешифраторов обеспечивает частичное логическое маскирование импульсов помех. При использовании нестандартной топологии эта же логика может обеспечить и

Classification of EEG signals using a greedy algorithm for constructing a committee of weak classifiers

S97

Trofimov, A.G.; Ivanitskij, I.I. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: ivanicki-i@yandex.ru, atrofimov@list.ru; Velichkovskij, B.M. (Natsional'nyj Issledovatel'skij Tsentri Kurchatovskij Inst., Moscow (RU)), E-mail: velich@applied-cognition.org

Klassifikatsiya signalov EEG s ispol'zovaniem zhadnogo algoritma postroeniya komiteta klassifikatorov

p. 537-544

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8 refs., 6 figs., 1 tab.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; CLASSIFICATION; ALGORITHMS; MATHEMATICAL LOGIC; COMPUTERS; COMPUTER CODES

A greedy algorithm has been proposed for the construction of a committee of weak EEG classifiers, which work in the simplest one-dimensional feature spaces. It has been shown that the accuracy of classification by the committee is several times higher than the accuracy of the best weak classifier

В работе предложен жадный алгоритм построения комитета простейших классификаторов сигналов электроэнцефалографии (ЭЭГ), работающих в одномерных пространствах признаков. Показано, что точность комитета классификаторов в несколько раз превысила точность лучшего из входящих в его состав слабых классификаторов

On the representation of numbers in the form of sums of ten different digits

S97

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

O predstavlenii chisel summami iz desyati nepovtoryayushchikhsya tsifr

p. 545-549

(RU)

2 refs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; CLASSIFICATION; ALGORITHMS; COMPUTERS; COMPUTER CODES

The solution of the problem of the representation of numbers in the form of sums written by ten different digits has been considered. It has been shown that, in contrast to the classical Polya problem, which does not have any solution, the modification of the conditions of the problem leads to numerous solutions. Representations of some numbers in the form of sums expressed in terms of different digits have been proposed

В работе рассматривается решение задачи о представлении чисел в виде сумм, записанных с помощью десяти неповторяющихся цифр. Показано, что в отличие от классической задачи Пайя, не имеющей ни одного решения, модификация условий задачи приводит к многочисленным решениям. Предложены представления ряда чисел в виде сумм, выраженных через неповторяющиеся цифры

Generalization of the classical trigonometric system of functions

S97

Barmenkov, A.N. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: anbarmenkov@mail.ru

Obobshchenie klassicheskoy trigonometricheskoy sistemy funktsij

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MATHEMATICS; MATHEMATICAL SOLUTIONS; MATHEMATICAL MODELS;
ALGORITHMS; COMPUTERS; COMPUTER CODES

A generalization of the trigonometric system of functions has been proposed for the mathematical modeling of physical processes. A method for finding the coefficients of the expansion of functions in series in systems of special functions that are generalizations of the classical trigonometric system has been demonstrated

Предлагается для математического моделирования физических процессов использовать обобщение тригонометрической системы функций, показан способ нахождения коэффициентов разложения функций в ряд по специальным системам функций, являющихся обобщением классической тригонометрической системы

New method for solving algebraic equations without the use of imaginary numbers

S97

Maslennikov, V.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: vmaslennikov@mail.ru

Novyj metod resheniya algebraicheskikh uravnenij bez ispol'zovaniya mnimyykh chisel

p. 554-559

(RU)

4 refs., 4 figs.

A new method for solving algebraic equations without the use of imaginary numbers has been proposed. Complex-conjugate roots can be expressed in terms of their absolute value and real part. This method simplifies the process of solving quadratic equations and provides simple approximate but sufficiently accurate formulas for the roots of cubic equations. This method can also be useful for solving equations of higher orders

В статье предлагается новый метод решения алгебраических уравнений без использования мнимых чисел. Комплексно-сопряженные корни выражаются через их модуль и их действительную часть. Это упрощает решения квадратных уравнений и позволяет получить простые приближенные, но достаточно точные формулы для определения корней кубических уравнений. Метод может быть полезен и для решения уравнений более высоких порядков

Methods for the analysis of nuclear terrorism risks

S98

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Metody analiza riskov yadernogo terrorizma

p. 560-568

(RU)

16 refs., 3 figs., 3 tabs.

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SECURITY; NUCLEAR DAMAGE; HAZARDS; PHYSICAL RADIATION EFFECTS;
HUMAN INTRUSION; RISK ASSESSMENT; CRIME; THEFT

The author shows that the most justifiable method for quantitative evaluation of risks associated with nuclear terrorism activities is the scenario model that is created as a sequence of threat and response events and is implemented in the form of finite control Markov chains. As a further development of this model, a method for the evaluation of non-synchronized threat and response events is proposed. Some threat and response events for scenario models with exemption and non-exemption of nuclear material have been considered

Автор показывает, что наиболее обоснованной методикой количественной оценки рисков ядерного терроризма является сценарная модель, создаваемая в виде последовательности событий угроз и противодействий и реализуемая в форме конечных управляемых Марковских цепей. В развитие этой модели предложен метод учета разновременности событий угроз и противодействия. Рассмотрены события угроз и противодействий для сценарных моделей с изъятием и без изъятия ядерного материала

Change in the physical properties of a metal under local violation of electroneutrality

S36

Kalashnikov, N.P.; Ol'chak, A.S. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: kalash@mephi.ru

Izmenenie fizicheskikh svojstv metalla pri lokal'nom narushenii ehlektronejtral'nosti

p. 6-10

(RU)

7 refs., 2 figs., 1 tab.

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METALS; PHYSICAL PROPERTIES; MECHANICAL PROPERTIES; THERMOELECTRIC PROPERTIES; CUBIC LATTICES; MELTING; COULOMB EXCITATION

The nonuniform heating of a metal can lead to the partial displacement of conduction electrons from hotter regions to colder ones, creating domains with a noticeable excess positive charge in the region of the strong temperature gradient. The excess positive charge changes the mechanical, strength, and thermal properties of the metal, leading to a change in the melting temperature, a decrease in the ultimate strength, and finally the destruction of the metal owing to the Coulomb repulsion between the ions of the lattice

Неравномерное нагревание металла может приводить к частичному вытеснению электронов проводимости из более горячих областей в более холодные, создавая в области сильного градиента температуры зоны с заметным избыточным положительным зарядом. Избыточный положительный заряд меняет механические, прочностные и тепловые свойства металла, приводя к изменению температуры плавления, понижению порога прочности и, в конечном итоге, разрушению металла за счет кулоновского расталкивания ионов решетки

Harmonics of the quantum cyclotron resonance on short-radius centers in two-dimensional structures

S71

Andreev, S.P.; Nebogatov, V.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)); Gurvich, Yu.A. (Moskovskij Pedagogicheskij Gosudarstvennyj Univ., Moscow (RU)); Pavlova, T.V. (Inst. Obshchej Fiziki im. A.M. Prokhorova RAN, Moscow (RU)), E-mail: tania.v.pavlova@gmail.com

Garmoniki kvantovogo tsiklotronnogo rezonansa na tsentrakh malogo radiusa v dvumernykh strukturakh

p. 11-14

(RU)

6 refs., 2 figs.

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PHYSICS; QUANTUM MECHANICS; CYCLOTRON HARMONICS; CYCLOTRON FREQUENCY; CYCLOTRON RESONANCE; ELECTROMAGNETIC FIELDS

The theory of harmonics of the cyclotron resonance has been developed for the case of the interaction of electrons with a static short-range potential. The absorption coefficient of the electromagnetic field of the frequency by a two-dimensional system of electrons non-interacting with each other in a quantizing magnetic field has been calculated

В работе развита теория гармоник циклотронного резонанса для случая взаимодействия электронов со статическим короткодействующим потенциалом. Вычислен коэффициент поглощения электромагнитного поля частоты двумерной системой невзаимодействующих между собой электронов в квантующем магнитном поле

Alternative current harmonics on a resonant tunneling diode

S71

Elant'ev, I.A.; Bezhko, M.P.; Bezotosnyj, I.Yu.; Elesin, V.F. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: kivelofff@gmail.com

Garmoniki peremennogo toka na rezonansno-tunnel'nom diode

p. 15-17

(RU)

5 refs., 5 figs.

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PHYSICS; OSCILLATIONS; HARMONICS; RESONANCE; TUNNEL DIODES;
ELECTROMAGNETIC FIELDS

The harmonics of forced oscillations on a resonant tunneling diode have been analyzed in the paper. The amplitudes and phases of the harmonics have been obtained as functions of the bias voltage. The dependences of the amplitudes of the harmonics on the amplitude of the external signal have been also analyzed

Исследованы гармоника вынужденных колебаний на резонансно-туннельном диоде. Получены зависимости амплитуд и фаз гармоник от напряжения смещения. Проведен анализ зависимостей амплитуд гармоник от амплитуды внешнего сигнала

Spectroscopy of heavy lithium isotopes

S07

Gurov, Yu.B.; Grebenev, V.N.; Kalinin, E.M.; Karpukhin, V.S.; Korotkova, L.Yu.; Lapushkin, S.V.; Pritula, R.V.; Sandukovskij, V.G.; Chernyshev, B.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: chernyshev@mephi.ru

Spektroskopiya tyazhelykh izotopov litiya

p. 18-25

(RU)

29 refs., 9 figs.

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ISOTOPES; ISOTOPE PRODUCTION; LITHIUM ISOTOPES; LITHIUM 10; LITHIUM 12;
SPECTROSCOPY; SPECTROMETERS

The production of heavy lithium isotopes has been experimentally sought in the reaction of the absorption of stopped pions on a ^{14}C radioactive target. The production of heavy lithium isotopes has been experimentally sought in the missing mass spectra measured in the reactions induced by the absorption of stopped pions. Three excited states of heavy lithium isotopes have been identified. The wide state with the resonance energy has the highest excitation energy compared to the previously observed levels

Экспериментальный поиск образования тяжелых изотопов лития был выполнен в реакции поглощения остановившихся пионов на радиоактивной мишени ^{14}C . Поиск образования тяжелых изотопов лития был выполнен в спектрах недостающих масс, измеренных в реакциях поглощения остановившихся пионов. Были выделены три возбужденных состояния тяжелого изотопа лития, при этом широкое состояние с резонансной энергией обладает наибольшей энергией возбуждения, по сравнению с ранее наблюдаемыми уровнями

Double ϕ -meson production in Σ - α interactions at an initial energy 600 GeV

S71

Nigmatkulov, G.A.; Romanov, D.A.; Sinev, G.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: nigmatkulov@gmail.com

SELEX Collaboration

Parnoe rozhdenie ϕ -mezonov v Σ - α -vzaimodejstviyakh pri nachal'noj ehnergii 600 GeV

p. 26-30

(RU)

16 refs., 6 figs.

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PHYSICS; PARTICLES; MESON SPECTROSCOPY; PHI MESONS; PION BEAMS;
INTERACTIONS; QUARKS; FERMILAB TEVATRON

Preliminary results of study of the $\phi\phi$ vector mesons pair production in Σ - α interactions at an initial energy 600 GeV in the SELEX (E-781) experiment at the Tevatron (Fermi National Accelerator Laboratory) are presented in this paper. ϕ -Meson pairs were reconstructed via $K+K$ -channel in inclusive reaction of the Σ -beam interaction with copper and carbon targets. In this paper authors report event selection and particle reconstruction cuts, and preliminary results of experimental data processing

В работе представлены предварительные результаты исследования рождения пар векторных мезонов в Σ - α -взаимодействиях при начальной энергии 600 ГэВ в эксперименте SELEX (E-781) на ускорителе Tevatron Национальной лаборатории им. Ферми. В работе приведены мировые данные по исследованию системы, состоящей из

двух ϕ -мезонов, а также критерии отбора событий и предварительные результаты обработки экспериментальных данных

Baryon asymmetry as a result of the asymmetry of an additional space

S79

Grobov, A.V.; Rubin, S.G. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: alexey.grobov@gmail.com

Barionnaya asimmetriya kak rezul'tat asimmetrii dopolnitel'nogo prostranstva

p. 31-34

(RU)

5 refs.

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PHYSICS; ASTROPHYSICS; COSMOLOGY; SOLAR SYSTEM EVOLUTION; UNIVERSE; ASYMMETRY

A mechanism of the generation of baryon asymmetry at the initial stage of the evolution of the universe has been considered. The corresponding symmetry of the theory is recovered in the process of evolution at later stages. The baryon charge sufficient for explaining the observed asymmetry appears in the process of symmetrization

В работе рассматривается механизм генерации барионной асимметрии на начальной стадии эволюции Вселенной. Соответствующая симметрия теории восстанавливается в процессе эволюции на более поздних стадиях. В процессе симметризации нарабатывается барионный заряд, достаточный для объяснения наблюдаемой асимметрии

Equation for the temperature Green's function of the electron in a multiband electron-phonon system

S71

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Uravnenie dlya temperaturnoj funktsii Grina ehlektrona v mnogozonnoj ehlektron-fononnoj sisteme

p. 35-38

(RU)

11 refs.

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PHYSICS; RESONANCE; ELECTROMAGNETIC FIELDS; GREEN FUNCTION; DIFFERENTIAL EQUATIONS; ELECTRON-PHONON COUPLING; PHONONS; HUBBARD MODEL

The equation for the temperature Green's function of the electron in an electron-phonon system in the Matsubara representation has been microscopically derived. It has been shown that this equation in the coordinate representation has the form symmetrized in a certain form in the spatial coordinates

Получено из микроскопических соображений уравнение для температурной функции Грина электрона электрон-фононной системы в представлении Мацубары. Показано, что такое уравнение в координатном представлении имеет вид, определенным образом симметризованный по пространственным координатам

Temperature dependence of the real part of the self-energy of high-temperature copper-containing superconductor

S71

Korneeva, L.A.; Mazur, E.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: Korneeva_mila@mail.ru

Temperaturnaya zavisimost' dejstvitel'noj chasti sobstvennoj ehnergii vysokotemperaturnykh medesoderzhashchikh sverkhprovodnikov

p. 39-43

(RU)

44 refs., 3 figs.

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PHYSICS; GREEN FUNCTION; DIFFERENTIAL EQUATIONS; PHONONS; ELECTRON-PHONON COUPLING; SUPERCONDUCTORS

The Eliashberg theory has been generalized to take into account electron-hole nonequivalence and electron-electron interaction in the vertex function. The phonon contribution to the nodal electron Green's function in cuprates has been considered. The temperature dependence of the real part of the self-energy part of the Green's function of cuprates with hole doping close to the optimal level is described by the electron-phonon interaction in the framework of the expanded Eliashberg theory

Теория Элиашберга обобщена для учета электрон-дырочной неэквивалентности и электрон-электронного взаимодействия в вершинной функции. Рассматривается фононный вклад в нодальную электронную функцию Грина (ФГ) в купратах. Показано, что при уровне дырочного допирования, близком к оптимальному, температурная зависимость действительной части собственно энергетической части ФГ купратов описывается электрон-фононным взаимодействием в рамках расширенной теории Элиашберга

Method for the approximate calculation of the composition of the detonation products of hydrogen-oxygen gas mixtures

S37

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Metod priblizhennogo rascheta sostava produktov detonatsii vodorodno-kislorodnykh gazovykh smesej

p. 44-47

(RU)

4 refs., 1 fig., 2 tabs.

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CHEMISTRY; PHYSICAL CHEMISTRY; MIXTURES; CHEMICAL COMPOSITION;
CHEMICAL REACTIONS; MOLECULAR BIOLOGY

A method for the approximate calculation of the composition of the detonation products of gas mixtures is reported in the paper. The method is based on the assumption of partial equilibrium in the subsystem of bimolecular reactions. The description of the equilibrium composition in the subsystem of bimolecular reactions is reduced to the solution of the system of linear equations

В данной работе представлен метод приближенного расчета состава продуктов детонации газовых смесей. В основе метода лежит предположение о частичном равновесии в подсистеме бимолекулярных реакций. В данном случае описание равновесного состава в подсистеме бимолекулярных реакций сводится к решению системы линейных уравнений

Wide-range equation of state of the fluid based on integral equations for pair correlation functions

S71

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Shirokodiapazonnoe uravnenie sostoyaniya flyuida na osnove integral'nykh uravnenij dlya parnykh korrelyatsionnykh funktsij

p. 48-53

(RU)

13 refs., 3 figs.

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PHYSICS; ELECTROMAGNETIC FIELDS; DIFFERENTIAL EQUATIONS; FLUIDS;
FLUID FLOW; THERMODYNAMIC PROPERTIES; MONTE CARLO METHOD

New simulation data on the thermodynamic properties of a fluid have been obtained by the method of integral equations. Methods for correction of correlation functions and error analysis have been proposed

Получены новые данные по моделированию термодинамических свойств флюида методом интегральных уравнений. Предложены методы коррекции корреляционных функций и анализа погрешностей расчета корреляционных функций

Empirical equation of state of the products of the detonation of a liquid explosive based on mixtures of tetranitromethane and nitrobenzene of various compositions

S71

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Ehmpiricheskoe uravnenie sostoyaniya produktov detonatsii zhidkogo vzryvchatogo veshchestva na osnove smesej tetranitrometana i nitrobenzola razlichnykh sostavov

p. 54-60

(RU)

9 refs., 4 figs., 6 tabs.

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v. 1(1)

PHYSICS; ELECTROMAGNETIC FIELDS; EQUATIONS OF STATE; SIMULATION; EXPLOSIVES; NITROBENZENE; CHEMICAL EXPLOSIVES

The equation of state of the products of the detonation of liquid explosives has been derived by theoretical analysis and calculations. The dependence of the detonation rate on the oxygen balance has been obtained using the existing data on the physicomechanical and detonation properties of liquid explosive mixtures. Calculation dependences of the density on the weight content of nitrobenzene have been obtained

Приведены результаты расчетно-теоретической работы по построению уравнения состояния продуктов детонации жидких взрывчатых веществ. По имеющимся данным физико-химических и детонационных свойств жидких взрывчатых составов получены зависимости скорости детонации от кислородного баланса смеси. Приведены расчетные зависимости, связывающие плотность с весовым содержанием нитробензола

Molecular dynamics calculation of the surface tension of aluminum nanodrops

S71

Gubin, A.S.; Botyachkova, A.I.; Dubrovskij, A.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: abotyachkova@yandex.ru

Raschet poverkhnostnogo natyazheniya nanokapel' alyuminiya metodom molekulyarnoj dinamiki

p. 61-64

(RU)

9 refs., 4 figs.

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v. 1(1)

PHYSICS; DYNAMICS; MOLECULAR DYNAMICS METHOD; COMPUTERIZED SIMULATION; LIQUID DROP MODEL; INTERMOLECULAR FORCES

A method has been proposed for calculating the surface tension coefficient of liquid drops. The density and normal and tangential components of the stress tensor have been calculated as functions of the distance to the center of a nanodrop

Предложена методика расчета величины коэффициента поверхностного натяжения жидких капель. Построены профили плотности, нормальной и тангенциальной составляющих тензора напряжений в зависимости от расстояния до центра нанокапли. Получена зависимость коэффициента поверхностного натяжения нанокапель алюминия от их радиуса

On a new approach to the creation of construction materials of nuclear reactions **S22**

Kolotushkin, V.P.; Parfenov, A.A. (OAO VNIINM im. A.A. Bochvara, Moscow (RU)), E-mail: kolotush@bochvar.ru

O novom podkhode k sozdaniyu konstruktsionnykh materialov yadernykh reaktorov

p. 65-69

(RU)

16 refs., 2 figs.

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REACTORS; REACTOR SAFETY; RADIATIONS; RADIATION EFFECTS; RADIATION HAZARDS

The acceleration of the recombination of vacancies and interstitial atoms upon neutron irradiation is a decisive factor of an increase in the radiation resistance of construction materials of nuclear reactors. The highest efficiency of the implementation of these processes is achieved when distortions appearing under the synergetic action of neutron radiation and short-range ordering of the crystal lattice are used as traps of vacancies and interstitial atoms

Ускорение рекомбинации вакансий и межузельных атомов при нейтронном облучении является решающим фактором повышения радиационной устойчивости конструкционных материалов ядерных реакторов. Наибольшей эффективности в реализации этих процессов удалось добиться при использовании в качестве ловушек вакансий и межузельных атомов искажений, возникающих при синергетическом действии на структуру нейтронного облучения и ближнего упорядочения кристаллической решетки

Size limit for a crystal-liquid phase transition

S37

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Razmernyj predel dlya fazovogo perekhoda kristall-zhidkost'

p. 70-75

(RU)

14 refs., 2 figs.

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CHEMISTRY; PHYSICAL CHEMISTRY; CHEMICAL COMPOSITION; CHEMICAL REACTIONS; MELTING; HYSTERESIS; CRYSTAL-PHASE TRANSFORMATIONS

The melting temperature, crystallization beginning temperature, and the specific (per atom) jumps of entropy, latent heat, and volume for a crystal-liquid phase transition have been obtained in the framework of the model of nanocrystal in the form of a rectangular parallelepiped with a variable surface shape. The dependence of these quantities on the number of atoms and on the shape of a nanoparticle has been analyzed

Исходя из модели нанокристалла в виде прямоугольного параллелепипеда с варьируемой формой поверхности, получены выражения для следующих зависимостей: температур плавления и начала кристаллизации, удельных (на атом) скачков энтропии, скрытой теплоты и объема для фазового перехода кристалл-жидкость. Изучена зависимость данных функций от числа атомов и от формы наночастицы

Derivation of the equation of state of nanodispersed Al₂O₃

S37

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Poluchenie uravneniya sostoyaniya nanodispersnogo Al₂O₃

p. 76-79

(RU)

9 refs., 4 figs.

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CHEMISTRY; PHYSICAL CHEMISTRY; CHEMICAL REACTIONS; EQUATIONS OF STATE; GRUENEISEN FORMULA; THERMODYNAMIC PROPERTIES; ALUMINIUM OXIDES

A method for obtaining the equation of state of nanodispersed aluminum oxide in the solid and liquid states has been developed on the basis of the known equation of state of Al₂O₃ in the usual macrocrystalline state. A relation for the calculation of the enthalpy of nanodispersed Al₂O₃ as a function of the size of a nanoparticle has been obtained

Разработанная методика получения уравнения состояния (УРС) нанодисперсного оксида алюминия в твердом и жидком состояниях основана на известном УРС Al₂O₃ в обычном крупнокристаллическом состоянии. Получено соотношение для расчета изменения энтальпии нанодисперсного Al₂O₃ в зависимости от размера наночастицы

Features of the production of nanoparticles in solutions

S37

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Osobennosti obrazovaniya nanochastits v rastvorakh

p. 80-83

(RU)

11 refs., 2 figs., 2 tabs.

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PHYSICS; SURFACTANTS; HYDROTHERMAL SYSTEMS; SYNTHESIS;
HYDROTHERMAL SYNTHESIS

An approach to the control of the sizes of oxide and metal nanoparticles produced in solutions is presented. It is assumed that a key point is the spontaneous formation of neutral hydroxo complexes usually containing 24 metal atoms. Their progressive development is either further self-assembly with the formation of particles of various-dimensions or functioning as heteroepitaxial nuclei in the formation of nanoparticles with a different composition

В работе излагается подход к управлению размерами наночастиц оксидов и металлов, образующихся в растворах. Предполагается, что ключевым моментом является спонтанное образование незаряженных аква-оксо-гидроксикомплексов, содержащих обычно 24 атома металла. Путем их прогрессивного развития является или дальнейшая самосборка с образованием частиц различной мерности, или функционирование как гетероэпитаксиальных зародышей при образовании наночастиц другого состава

Precision BiCMOS successive approximation analog-to-digital converter with low power consumption

S97

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Прецизионный BiCMOP ATsP последовательного приближения с низким энергопотреблением

p. 84-88

(RU)

8 refs., 4 figs.

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MATHEMATICS; MATHEMATICAL MODELS; COMPUTERIZED SIMULATION;
FUNCTIONS; ANALOG-TO-DIGITAL CONVERTERS; ELECTRONIC EQUIPMENT

An IP block of a successive approximation analog-to-digital converter (ADC) with low power consumption has been developed as a part of an application-specific integrated circuit (ASIC) for an intellectual flow meter. The advantages of the application of the modified #Left Double Quotation Mark#top-down#Right Double Quotation Mark# design method to the design of the chip have been demonstrated. The results of the simulation, verification, and test of the analog-to-digital converter are presented

Разработан сложно-функциональный блок аналогового цифрового преобразователя (АЦП) последовательного приближения с низким энергопотреблением как часть специализированной микросхемы для интеллектуального датчика-расходомера. Показаны преимущества применения модифицированного метода разработки #Left Double Quotation

Mark#сверху-вниз#Right Double Quotation Mark# при проектировании микросхемы. Представлены результаты моделирования, верификации и тестирования АЦП

Modern approaches to the design of analog-digit integrated circuits based on multilevel simulation methods

S97

Osipov, D.L.; Bocharov, Yu.I.; Butuzov, V.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: ossipov.dmitry@gmail.com

Sovremennye podkhody k proektirovaniyu analogo-tsifrovyykh BIS, osnovannye na ispol'zovanii metodov mnogourovnevego modelirovaniya

p. 89-92

(RU)

22 refs., 1 fig., 1 tab.

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MATHEMATICS; MATHEMATICAL MODELS; COMPUTERIZED SIMULATION; ANALOG-TO-DIGITAL CONVERTERS; ELECTRONIC EQUIPMENT; INTEGRATED CIRCUITS; ELECTRONIC CIRCUITS

Modern methods for the design of analog and analog-digit integrated circuits have been analyzed. #Left Double Quotation Mark#Top-down#Right Double Quotation Mark# and #Left Double Quotation Mark#bottom-up#Right Double Quotation Mark# design methods are compared. The advantages of the #Left Double Quotation Mark#top-down#Right Double Quotation Mark# method in the rate of the development and verification of integrated circuits have been demonstrated

Рассмотрены современные методы проектирования аналоговых и аналого-цифровых интегральных микросхем (ИМС). Приводится сравнение методов проектирования #Left Double Quotation Mark#сверху-вниз#Right Double Quotation Mark# и #Left Double Quotation Mark#снизу-вверх#Right Double Quotation Mark#, показаны достоинства метода #Left Double Quotation Mark#сверху-вниз#Right Double Quotation Mark# с точки зрения скорости разработки и верификации ИМС

Library IVP++ of algorithms for the integration of Cauchy problems for the simulation of the hydrodynamics of one-dimensional channels

S97

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Biblioteka algoritmov integrirvaniya zadach Koshi IVP++ dlya modelirovaniya gidrodinamiki odnomernykh kanalov

p. 93-99

(RU)

12 refs., 2 figs., 6 tabs.

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MATHEMATICS; MATHEMATICAL MODELS; COMPUTERIZED SIMULATION;
CAUCHY PROBLEM; DIFFERENTIAL EQUATIONS; HYDRODYNAMICS

The program library IVP++ has been described and tested on the simulation of the hydrodynamics of a one-dimensional channel. Numerical integration methods are briefly reviewed. The calculation-theoretical analysis of the application of implicit high-order integration methods to the simulation of one-dimensional hydro and gas dynamics has been performed

Представлены описание и результаты тестирования разработанной авторами программной библиотеки IVP++ на примере моделирования гидродинамики одномерного канала. Проведен краткий обзор численных методов интегрирования. Проведено расчетно-теоретическое исследование применимости неявных методов интегрирования высокого порядка для моделирования одномерной гидрогазодинамики

Computing schemes of expert information inclusion at processing of uncertain data and their application

S97

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Vychislitel'nye skhemy ucheta ehkspertnoj informatsii pri obrabotke neopredelennykh dannykh i ikh primenenie

p. 100-103

(RU)

5 refs., 4 figs.

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MATHEMATICS; MATHEMATICAL MODELS; COMPUTERIZED SIMULATION; DATA PROCESSING; DATA BASE MANAGEMENT; DATA ANALYSIS

Expert information inclusion schemes are considered and used to solve the problem of uncertain data processing. The schemes based on the Bayes method and three expert information inclusion schemes based on the generalized maximum-likelihood method and the metric analysis are used

В настоящей работе рассматриваются и используются схемы учета экспертной информации при решении задач обработки неопределенных данных. Используются схемы, основанные на методе Байеса, и три схемы учета экспертной информации, основанные на обобщенном методе максимального правдоподобия и метрическом анализе

Educational laboratory based on a multifunctional analyzer of a reactor of a nuclear power plant with a water-moderated water-cooled reactor

S21

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Uchebnaya laboratoriya na baze mnogofunktsional'nogo analizatora reaktornoj ustanovki AEhS s VVEhR

p. 104-110

(RU)

9 figs.

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REACTORS; WWER TYPE REACTORS; NUCLEAR POWER; REACTOR CONTROL SYSTEMS; COMPUTERIZED CONTROL SYSTEMS; NUCLEAR REACTION ANALYZERS; EDUCATIONAL TOOLS; TRAINING REACTORS

Authors presents an educational laboratory Safety and Control of a Nuclear Power Facility established by the Department of Automation for students and specialists of the nuclear power industry in the field of control, protection, and safe exploitation of reactor facilities at operating, constructing, and designing nuclear power plants with water-moderated water-cooled reactors

Описана учебная лаборатория #Left Double Quotation Mark#Безопасность и управление ЯЭУБ#Right Double Quotation Mark#, созданная на кафедре автоматике для студентов и специалистов атомной отрасли в области контроля, управления, защиты и безопасной эксплуатации реакторных установок действующих, проектируемых и строящихся АЭС с реактором ВВЭР

Concept of the development and use of virtual laboratory exercises on unique experimental equipment for nuclear power facilities

S21

Afanas'ev, V.V.; Kryuchkov, Eh.F.; Petrov, V.I.; Sal'dikov, I.S.; Ternovykh, M.Yu.; Tikhomirov, G.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail:

MYTernovykh@mephi.ru

Kontseptsiya razrabotki i ispol'zovaniya virtual'nykh laboratornykh работ na unikal'nom ehksperimental'nom oborudovanii v oblasti yadernykh ehnergeticheskikh ustanovok

p. 111-115

(RU)

2 refs., 4 figs., 1 tab.

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NUCLEAR POWER; REACTOR CONTROL SYSTEMS; COMPUTERIZED CONTROL SYSTEMS; LEARNING; EDUCATIONAL TOOLS; TRAINING REACTORS

The database System for Support of Laboratory Exercises on Unique Experimental Equipment for Nuclear Power Facilities, as well as the concept of the development and use of virtual laboratory exercises in the educational process at the National Research Nuclear University MIFI, is described in the paper

Представлены описание базы данных #Left Double Quotation Mark#Система поддержки лабораторных работ на уникальном экспериментальном оборудовании в области ядерных

Use of the tools of an operating system kernel to control access to the entities of application servers

S97

Murav'ev, S.K.; Nikitina, E.A. (FGUP Tsentral'nyj Nauchno-Issledovatel'skij Inst. Ehkonomiki, Informatiki i Sistem Upravleniya, Moscow (RU)), E-mail: smurav@mail.ru

Ispol'zovanie sredstv yadra operatsionnoj sistemy dlya upravleniya dostupom k sushchnostyam serverov urovnya prilozhenij

p. 116-118

(RU)

5 refs., 2 figs.

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MATHEMATICS; COMPUTERS; DATA BASE MANAGEMENT; DATA PROCESSING; EXECUTIVE CODES; MATHEMATICAL SOLUTIONS

A method has been proposed for using the tools of kernel of an operating system to control access to the entities of application servers. The possibility of using an information protection system incorporated into the operating system to store and implement security policy has been demonstrated for a database management system

Предложен метод использования средств ядра операционной системы (ОС) для управления доступом к сущностям серверов уровня приложений. На примере системы управления базами данных показана возможность использования встроенной в ОС системы защиты информации для хранения и исполнения политики безопасности

Hybrid data storing system

S97

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Gibridnaya sistema upravleniya khraneniem dannykh

p. 119-124

(RU)

8 refs., 1 tab.

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MATHEMATICS; COMPUTERS; HYBRID COMPUTERS; DATA BASE MANAGEMENT; DATA PROCESSING; INFORMATION SYSTEMS; MEMORY DEVICES; DISTRIBUTED DATA PROCESSING

A method for improving the efficiency of data storing systems has been proposed in the paper. It has been also proposed to consider the inquiry processing model in terms of queuing theory. Criteria of the efficiency of the data storing systems have been presented

В работе предлагается способ повышения эффективности средств хранения данных. Предлагается рассматривать модель процесса обработки запросов в терминах теории массового обслуживания. Приводятся критерии эффективности системы хранения данных

On the characteristics of the structural approach to image recognition on digital images

S97

Pivtoratskaya, S.V.; Kulyabichev, Yu.P. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: moeimechko@yandex.ru

Ob osobennostyakh strukturnogo podkhoda k raspoznavaniyu obrazov na tsifrovyykh izobrazheniyakh

p. 125-128

(RU)

9 refs., 3 figs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; COMPUTERS; DATA BASE MANAGEMENT; DATA PROCESSING; IMAGE SCANNERS; IMAGE PROCESSING

The principles underlying the process of image recognition on digital images have been analyzed. A method has been proposed for automatic image recognition based on the structural approach to the choice of image features. The uniform local features have been described

Рассматриваются принципы, лежащие в основе процесса распознавания образов на цифровых изображениях. Предлагается методика автоматического распознавания образов, основанная на структурном подходе к выбору признаков образа. Приводится описание унифицированных локальных признаков

The effect of external electron injection and the environment composition on development of atmospheric discharge investigation

S36

Bogachenkov, V.A.; Oginov, A.V.; Chajkovskij, S.A.; Shpakov, K.V. (Fizicheskij Inst. im. P.N. Lebedeva RAN, Moscow (RU)), E-mail: shpakov@lebedev.ru

Issledovanie vliyaniya vneshnej inzhektionsii ehlektronov i sostava okruzhayushchej sredy na razvitie atmosfernogo razryada

p. 133-138

(RU)

4 refs., 11 figs.

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PHYSICAL PROPERTIES; MECHANICAL PROPERTIES; THERMOELECTRIC PROPERTIES; ELECTRON-ELECTRON INTERACTIONS; ELECTRONS; RUNAWAY ELECTRONS; CATHODES; ANODES

The effect of external electron injection (with energy about 150 keV) on initial phase development of the high-voltage (1.0-1.2 MV) long (500-700 mm) gas discharge is investigated. The experiments were conducted in atmospheric pressure air and in a mixture of air and water droplet phase

Исследовано влияние внешней инжекции электронов (с энергией около 150 кэВ) на развитие начальной стадии протяженного (500-700 мм) высоковольтного (1.0-1.2 МВ) газового разряда. Эксперименты проводились в воздухе при атмосферном давлении, а также в смеси воздуха с капельной фазой воды

X-ray and the Gamma spectrometer GRIS on the Russian segment of the International space station

S73

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Rentgenovskij i gamma-spektrometr GRIS na rossijskom segmente mezhdunarodnoj kosmicheskoj stantsii

p. 139-145

(RU)

3 refs., 8 figs.

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X-RAY RADIOGRAPHY; GAMMA RADIOGRAPHY; NEUTRONS; X-RAY EQUIPMENT; ALPHA DECAY; BETA DECAY; SPECTROMETERS

Planned experiment on research X-ray and gamma radiation and neutrons of solar flares is described in the paper. Descriptions of scientific equipment of GRIS, a condition of carrying out experiment and results of calculation of characteristics of its detector are provided

Описан планируемый эксперимент по исследованию рентгеновского и гамма-излучения и нейтронов солнечных вспышек. Приведены описания научной аппаратуры ГРИС, условия проведения эксперимента и результаты расчета характеристик его детектора

Nonlinear properties of double and triple barrier resonant tunneling structures in the sub-THz range

S71

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Nelinejnye svojstva dvukh- i trekhbar'ernykh rezonansno-tunnel'nykh struktur v sub-TGts

diapazone

p. 146-154

(RU)

14 refs., 13 figs., 1 tab.

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PHYSICS; OSCILLATIONS; RESONANCE; TUNNEL DIODES; ELECTROMAGNETIC FIELDS; SUPERCONDUCTIVITY

The high-frequency nonlinear properties of GaAs/AlAs resonant tunneling diode (RTD) nanostructures and perspectives of implementation of the quantum regime of amplification in such structures, which is especially efficient in the range of sub-THz and THz ranges, are investigated. It is shown that in a triple barrier RTD the symmetry between the processes of amplification and dissipation can be avoided because of the interaction of an electromagnetic wave with both of resonant states in two quantum wells, that results in the significant growth of an RTD efficiency

Исследованы нелинейные высокочастотные свойства GaAs/AlAs резонансно-туннельных диодных (РТД) наноструктур и возможности реализации в них квантового режима усиления, эффективного в диапазоне суб-ТГц и ТГц частот. Показано, что в трехбарьерных РТД, благодаря взаимодействию электромагнитной волны с двумя резонансными электронными состояниями, возможно преодоление симметрии процессов усиления и поглощения и значительное повышение эффективности РТД

Laser ablation method for cleaning of mirror surfaces for optical diagnostic systems at the ITER

S70

Aleksandrova, A.S.; Kuznetsov, A.P.; Gubskij, K.L.; Petrovskij, V.N.; Savelov, A.S.; Shtamm, V.G. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: alexandra.s.alexandrova@mail.ru; Buzhinskij, O.I. (FGUP GNTs RF Troitskij Inst. Innovatsionnykh i Termoyadernykh Issledovaniy, Troitsk (RU))

Metod lazernoj ablyatsii dlya ochistki poverkhnostej zerkal dlya sistem opticheskikh diagnostik na ITEhR

p. 155-161

(RU)

21 refs., 5 figs., 1 tab.

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PHYSICS; ITER TOKAMAK; THERMONUCLEAR REACTORS; PLASMA; OPTICAL EQUIPMENT; FIBER OPTICS; MIRRORS

The possibility of cleaning metallic mirrors from films with complex composition by pulsed radiation from a fiber laser has been experimentally examined. It has been shown that the high initial reflection characteristics of optical elements can be recovered by choosing regimes of the action of radiation on the surface with a deposited film

Представлены результаты экспериментальных исследований возможности очистки металлических зеркал от пленок сложного состава импульсным излучением волоконного лазера. Показано, что подбором режимов воздействия излучения на поверхность с напыленной пленкой можно восстановить исходные высокие отражательные характеристики оптических элементов

Problem of the creation of functional materials of new generation

S36

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Problema sozdaniya funktsional'nykh materialov novogo pokoleniya

p. 162-166

(RU)

22 refs., 4 figs.

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MATERIALS; NANOSTRUCTURES; CHEMICAL PROPERTIES; ELECTRICAL PROPERTIES; MECHANICAL PROPERTIES; OPTICAL PROPERTIES

The authors describe the problems of the creation of functional materials of new generation, especially for nanotechnologies and nanoengineering

Авторы описывают проблемы создания функциональных материалов нового поколения, особенно для нанотехнологий и наноинженерии

Carbon nanomaterials developments

S36

Rakov, Eh.G.; Golubkov, V.V.; Hyu Van Nguen (Rossijskij Khimiko-Tekhnologicheskij Univ. im. D.I. Mendeleeva, Moscow (RU)), E-mail: eg_rakov@rctu.ru

Razrabotki uglerodnykh nanomaterialov

p. 167-171

(RU)

27 refs., 3 figs., 3 tabs.

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MATERIALS; NANOSTRUCTURES; CHEMICAL PROPERTIES; ELECTRICAL PROPERTIES; MECHANICAL PROPERTIES; OPTICAL PROPERTIES; NANOTUBES; CARBON NANOTUBES; GRAPHENE; SORPTION

A short overview of developments carried out by authors and presented in reports at the yearly MEFhI session in 2012 is given in the paper

В работе дан краткий обзор разработок, выполненных авторами и представленных в докладах на ежегодной сессии МИФИ 2012 г

Method for obtaining a wide-range equation of state for binary fluid mixtures on the basis of perturbation theory

S97

Bogdanova, Yu.A.; Gubin, S.A.; Viktorov, S.B.; Gubina, T.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: bogdanova.youlia@bk.ru

Metod polucheniya shirokodiapazonnogo uravneniya sostoyaniya dvukhkomponentnogo flyuida na osnove teorii vozmushchenij

p. 172-180

(RU)

19 refs., 1 fig., 3 tabs.

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MATHEMATICS; MATHEMATICAL LOGIC; EQUATIONS OF STATE;

THERMODYNAMICS; FREE ENERGY; MONTE CARLO METHOD; PERTURBATION THEORY

The thermodynamic parameters of the binary mixture of hydrogen and helium are calculated on the basis of perturbation theory with the use of the basic system of hard spheres. The problem the nonadditivity of the hard sphere diameters can be successfully circumvented by using appropriate separation between the reference and the perturbation potentials

Разработана теоретическая модель уравнения состояния двухкомпонентного флюида с потенциалом взаимодействия Ехр-6, созданная на основе улучшенной версии теории возмущений. Рассмотрены различные схемы разбиения потенциала взаимодействия между разноименными молекулами двухкомпонентного флюида на базисную и возмущающую части в соответствии с термодинамической теорией возмущений

Prospects for usage of the two-phase logic elements in fault-tolerant sub-100-nm CMOS

S97

Stenin, V.Ya. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: stenin@kaf3.mephi.ru

Perspektivy ispol'zovaniya dvukhfaznoj KMOP logiki v sboeustojchivykh sub-100-nm SBIS

p. 181-187

(RU)

8 refs., 4 figs., 2 tabs.

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MATHEMATICS; MATHEMATICAL LOGIC; MATHEMATICAL MODELS; FUNCTIONS; SIMULATION; INVERTERS

The authors assume that the threshold function is the function of the critical charge threshold value, the threshold value of the capacitance between differential input (output) interconnects of

the two-phase CMOS inverter and the rise and decay time constants of the local ionization current pulse

Для оценки сбоеустойчивости КМОП инверторов с двухфазной структурой предложена пороговая характеристика, которая связывает пороговые значения критических зарядов с соответствующими пороговыми значениями емкостей дифференциальной связи

Higher order modes and multipactor discharge in superconducting cavity of eLINAC accelerator

S43

Bolgov, R.O.; Gusarova, M.A.; Kaminskij, V.I.; Korolev, V.A.; Lalayan, M.V.; Petrushina, I.I.; Sobenin, N.P. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: sobenin@mail.ru; Zvyagintsev, V.L. (Canada's National Lab. for Particle and Nuclear Physics, Vancouver (CA))

Vysshie tipy voln i mul'tipaktornyj razryad v sverkhprovodyashchikh rezonatorakh uskoritelya eLINAC

p. 188-194

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ACCELERATORS; LINEAR ACCELERATORS; RESONATORS; SUPERCONDUCTING CAVITY RESONATORS; PARTICLE BEAMS

The dependence of electrodynamic characteristics of higher order modes on the geometric sizes of last cells of the structure and beam channel tubes has been investigated. The sizes that allow reducing the influence of locked modes have been obtained. A multipactor discharge in a single-cell test cavity has been studied

Для 9-ти ячейечного сверхпроводящего резонатора типа Tesla исследована зависимость электродинамических характеристик волн высших типов в функции геометрических размеров конечных ячеек структуры и трубок пролетного канала пучка. Получены размеры, позволяющие ослабить влияние запертых мод. Проведены исследования мультипакторного разряда в тестовом одноячейечном резонаторе

High-voltage high-current triggering vacuum switch

S71

Alferov, D.F.; Bunin, R.A.; Evsin, D.V.; Sidorov, V.A. (Vserossijskij Ehlektrotekhnicheskij Inst. im. V.I. Lenina, Moscow (RU)), E-mail: BuninRA@mail.ru

Vysokovol'tnyj sil'notochnyj upravlyaemyj vakuumnij razryadnik

p. 195-199

(RU)

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PHYSICS; MAGNETIC FIELDS; ELECTRICITY; ELECTRIC CURRENTS; ELECTRIC POWER; CURRENTS

Experimental investigations of switching and breaking capacities of the new high current triggered vacuum switch (TVS) are carried out at various parameters of discharge current. It has been shown that the high current triggered vacuum switch TVS can switch repeatedly a current from units up to ten kiloamperes with duration up to ten milliseconds

Проведены экспериментальные исследования коммутационной и отключающей способности нового высоковольтного управляемого разрядника (РВУ) при различных параметрах разрядного тока. Показано, что РВУ способен многократно коммутировать ток от единиц до десятков килоампер длительностью до десятков миллисекунд

Correctness criterion in the inverse problem for a parabolic equation with the nonlocal observation condition

S97

Kostin, A.B. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: abkoston@mephi.ru

Kriterij korrektnosti obratnoj zadachi dlya parabolicheskogo uravneniya s nelokal'nym usloviem nablyudeniya

p. 200-204

(RU)

20 refs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; EQUATIONS; FUNCTIONS; MATHEMATICAL EVOLUTION; FUNCTIONAL ANALYSIS; INVERSE SCATTERING PROBLEM

The inverse source problem for the parabolic equation has been studied. To find function in right side of equation, additional information in the form of the nonlocal observation condition is specified in addition to the initial and boundary conditions. It has been proved that the correctness of the problem is equivalent to basis property of a certain system of functions

Исследуется обратная задача нахождения источника в параболическом уравнении. Для ее нахождения задается, помимо начальных и краевых условий, дополнительная информация в виде нелокального условия наблюдения. Доказано, что корректность такой задачи эквивалентна базисности некоторой системы функций

Mathematical model for forecasting of prices in non-ferrous metal markets

S97

Kryanev, A.V.; Udumyan, D.K.; Dudin, N.Yu. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: AVKryanev@mephi.ru

Matematicheskaya model' prognozirovaniya tsen na rynkakh tsvetnykh metallov

p. 205-209

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MATHEMATICS; MATHEMATICAL SOLUTIONS; FUNCTIONS; MATHEMATICAL MODELS; PROBABILISTIC ESTIMATION; MARKETERS; FORECASTING; METALS

In this work the analysis of the world markets of nonferrous metals and forecasting of the prices for nonferrous metals for short-term time lags is presented. Schemes based on the metric analysis are used for forecasting

В настоящей работе рассматриваются анализ мировых рынков цветных металлов и прогнозирование цен на цветные металлы для краткосрочных временных лагов. Для прогнозирования используются схемы, основанные на метрическом анализе

Methods for calculating fuel burnup with the spectral control of reactivity margin in WWER-type reactors

S21

Savander, V.I.; Vin Tu; Belousov, N.I. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: savander@mail.ru

Metodika rascheta vygoraniya topliva pri spektral'nom regulirovanii zapasa reaktivnosti v reaktorakh tipa VVEhR

p. 210-215

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REACTORS; WWER TYPE REACTORS; NUCLEAR FUELS; BURNUP; REACTIVITY; REACTOR CONTROL SYSTEMS; SPECTRAL SHIFT CONTROL

The fundamental modeling methods with the various ways of the spectrum control of excess reactivity in WWER type reactors on the basis of polycell models of an active zone are expounded. The methods are implemented to use the GETERA code which is designed for neutron-physical calculations of the cells, polycells and fragments of the nuclear reactor core

Излагаются основы методики моделирования различных способов спектрального регулирования запаса реактивности в реакторах типа ВВЭР на основе полиячеечных моделей активной зоны. Методика реализована для использования программного комплекса GETERA, предназначенного для нейтронно-физических расчетов ячеек, полиячеек и фрагментов активной зоны ядерного реактора

Calculation of the parameters of the quasi-ideal cascade with losses and ingoing flows on its stages

S07

Smirnov, A.Yu.; Sulaberidze, G.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: a.y.smirnoff@rambler.ru

К расчету параметров квазиидеального каскада с потерями и натеchkами на его ступенях
p. 216-223

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ISOTOPES; ISOTOPE SEPARATION; URANIUM RECYCLE; SEPARATION EQUIPMENT;
SEPARATION PROCESSES; EXTRACTION COLUMNS

A model of a quasi-ideal cascade with simultaneous presence of losses of the working substance on the cascade stages and the formation of new gaseous components has been proposed. A method has been developed for the calculation of external and internal parameters of such a cascade

В настоящем исследовании предложена модель квазиидеального каскада, обобщенная на случай одновременного присутствия потерь рабочего вещества на ступенях каскада и образования новых газовых компонентов. Разработан метод расчета внешних и внутренних параметров такого каскада

Kleptographic attacks on public key cryptosystems

S97

Garifullina, Z.R.; Ivanov, M.A.; Kovalev, A.V.; Chepik, N.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: zulfiya.garifullina@gmail.com

Kleptograficheskie ataki na kriptosistemy s otkryтым klyuchom

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MATHEMATICS; MATHEMATICAL SOLUTIONS; MATHEMATICAL EVOLUTION;
FUNCTIONAL ANALYSIS; CRYPTOGRAPHY; FUNCTIONS; ALGORITHMS

Some examples of kleptographic attacks on RSA and ElGamal key generation, the Diffie-Hellman key exchange, the elliptic curves digital signature algorithm (ECDSA) are given in the article

Рассматриваются примеры клептографических атак на функцию выработки пары ключей для алгоритмов RSA и Эль-Гамала, на схему электронной подписи ECDSA, на алгоритм выработки общего секретного ключа Диффи-Хеллмана

Three-dimensional pseudo-random number generator for implementing in hybrid computer systems

S97

Ivanov, M.A.; Vasil'ev, N.P.; Voronin, A.V.; Kravtsov, M.Yu.; Maksutov, A.A.; Spiridonov, A.A.; Khudyakova, V.I.; Chugunkov, I.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: MAIvanov@mephi.ru

Trekhmernyj generator psevdosluchajnykh chisel, orientirovannyj na realizatsiyu v gibridnykh vychislitel'nykh sistemakh

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6 refs., 3 figs.

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MATHEMATICS; MATHEMATICAL SOLUTIONS; NUMERICAL SOLUTION;
EQUATIONS; COMPUTER CODES; HYBRID COMPUTERS; RANDOMNESS

The algorithm for generating pseudo-random numbers oriented to implementation by using hybrid computer systems is considered. The proposed solution is characterized by a high degree of parallel computing

В работе рассматривается алгоритм генерации псевдослучайных чисел, ориентированный на реализацию с использованием гибридных вычислительных технологий. Особенностью предлагаемого решения является высокая степень параллелизма

Rootkits. Methods of detecting and removing

S99

Lagutina, A.M.; Bogdanovich, A.A.; Ivanov, M.A. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: annalgtn@mail.ru

Rutkity. Metody obnaruzheniya i udaleniya

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MATHEMATICS; MATHEMATICAL MODELS; MATHEMATICAL SOLUTIONS;
COMPUTERS; PROGRAMMING; SECURITY

The problems connected with the threat of the infection of computer systems by rootkits have been examined, and the methods for providing a guard from this type of malicious software have been analyzed

Рассматриваются проблемы, связанные с угрозой проникновения в компьютерную систему руткитов. Анализируются решения, обеспечивающие защиту от данного вида разрушающих программных воздействий

Software reliability estimation in the initial stages of its development

S97

Gurov, V.V. (Natsional'nyj Issledovatel'skij Yadernyj Univ. MIFI, Moscow (RU)), E-mail: vvgurov@mephi.ru

Otsenka nadezhnosti programmnoho obespecheniya na nachal'nykh ehtapakh ego proektirovaniya

p. 245-250

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MATHEMATICS; MATHEMATICAL MODELS; COMPUTERS; IBM COMPUTERS; PROGRAMMING; EQUATIONS; EXECUTIVE CODES

In this article the model based on Halstead complexity metrics and software reliability Mayers is proposed to be applied. The elaborated model makes it possible to compare different variants of program structure organization with the aim of minimization for overall amount of errors

В статье предлагается использовать модель, построенную на основе метрики сложности Холстеда и модели Майерса надежности программного обеспечения. Разработанная модель позволяет сравнить различные варианты организации структуры программы с целью минимизации общего количества ошибок в ней

Excitation of isomeric states in reactions (γ ,n) and (n,2n) on ^{76}Ge , ^{82}Se and ^{81}Br

S73

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277 p.

ISOMER RATIO; ISOMERIC NUCLEI; GERMANIUM 76 TARGET; SELENIUM 82 TARGET; BROMINE 81 TARGET; PHOTONUCLEAR REACTIONS; NEUTRON REACTIONS; NEUTRONS; NUCLEAR REACTION YIELD; GERMANIUM 75; SELENIUM 81; BROMINE 80; BREMSSTRAHLUNG; MEV RANGE 10-100; GROUND STATES; GAMMA SPECTRA; ENERGY RESOLUTION; HIGH-PURITY GE DETECTORS; EXPERIMENTAL DATA

Forward-angle values of polarization-transfer (PT) coefficients for the $^{16}\text{O}(\text{p-vector}, \text{p}\# \text{Acute Accent}\# \text{-vector})^{16}\text{O}$ (4° -, $T=1$) and $^{28}\text{Si}(\text{p-vector}, \text{p}\# \text{Acute Accent}\# \text{-vector})^{28}\text{Si}$ (6° -, $T=1$) reactions

S73

Plavko, A.V. (St. Petersburg State Polytechnic Univ., Saint-Petersburg (RU)); Onegin, M.S. (Petersburg Nuclear Physics Inst., Gatchina (RU)); Kudriashov, V.I. (St. Petersburg State Univ., Saint-Petersburg (RU)), e-mail: kudr@comita.spb.ru

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277 p.

OXYGEN 16 TARGET; PROTON REACTIONS; POLARIZED BEAMS; PROTONS; OXYGEN 16; SILICON 28 TARGET; SILICON 28; MEV RANGE 100-1000; ANGULAR DISTRIBUTION; DWBA; ISOVECTORS; SCATTERING; TRANSFER REACTIONS; SPIN ORIENTATION; DIAGRAMS; EXPERIMENTAL DATA

Cadmium isotope photodisintegration

S73

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CADMIUM 116 TARGET; CADMIUM 112 TARGET; PHOTONUCLEAR REACTIONS; BREMSSTRAHLUNG; MEV RANGE 10-100; NUCLEAR REACTION YIELD; EXCITED STATES; NEUTRONS; CADMIUM 111; PROTONS; SILVER 111; SILVER 110; ISOMERIC NUCLEI; EXPERIMENTAL DATA; THEORETICAL DATA; COMPARATIVE EVALUATIONS

Searching for new long lived isomers in thermal fission of ^{235}U

S73

Kamanin, D.V.; Strelakovsky, A.O.; Alexandrov, A.A. (Joint Inst. for Nuclear Research, Dubna (XJ)), e-mail: alex.strek@bk.ru (and others)

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Formation mechanisms of inclusive cross-sections of (p, χ p) and (p, χ α) reactions on Cu nucleus

S73

Duisebayev, A.; Duisebayev, B.A.; Zholdybayev, T.K.; Sadykov, B.M. (Inst. of Nuclear Physics, Almaty (KZ)), e-mail: zholdybayev@inp.kz; Ismailov, K.M. (Nazarbayev Univ., Astana (KZ))

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PROTON REACTIONS; COPPER; TARGETS; MEV RANGE 10-100; ANGULAR DISTRIBUTION; PRECOMPOUND-NUCLEUS EMISSION; PROTONS; ALPHA PARTICLES; SI SEMICONDUCTOR DETECTORS; ENERGY RESOLUTION; NUCLEAR REACTION KINETICS; P CODES; EXPERIMENTAL DATA; THEORETICAL DATA

Investigation of reactions on ^{112}Sn nucleus initiated by ^3He ions of 50 MeV with emission of deuterons, tritons and α -particles

S73

Duisebayev, A.; Duisebayev, B.A.; Zholdybayev, T.K.; Sadykov, B.M. (Inst. of Nuclear Physics, Almaty (KZ)), e-mail: zholdybayev@inp.kz; Ismailov, K.M. (Nazarbayev Univ., Astana (KZ))

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**Phase trajectories of the nuclear system in the proton induced
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Berdnikov, Ya.A.; Ivanov, A.E.; Suetin, D.P. (Saint-Petersburg State Polytechnic Univ., Saint-Petersburg (RU)), e-mail: ivanovae@pnpi.spb.ru; Kim, V.T. (Petersburg Nuclear Physics Inst. NRC KI, Gatchina, Saint-Petersburg (RU))

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Slepnev, R.S.; Bezbakh, A.A.; Fomichev, A.S. (Flerov Lab. of Nuclear Reaction Joint Inst. for Nuclear Research, Dubna (XJ)), e-mail: roman@nrmail.jinr.ru (and others)

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Rozov, S.V.; Brudanin, V.B.; Filosofov, D.V.; Yakushev, E.A. (Joint Inst. for Nuclear Research, Dubna (XJ)), e-mail: rozovs@jinr.ru

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Brudanin, V.; Egorov, V.; Filosofov, D.; Medvedev, D.; Rozov, S.V.; Sandukovskiy, V.; Yakushev, E. (Joint Inst. for Nuclear Research, Dubna (XJ)), e-mail: yakushev@jinr.ru; Gurov, Yu. (Joint Inst. for Nuclear Research, Dubna (XJ); National Research Nuclear Univ. (MIPhI), Moscow (RU))

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Lyashuk, V.I. (Inst. for Nuclear Research of Russian Academy of Sciences, Moscow (RU);

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Fomichev, A.S.; Grigorenko, L.V. (Flerov Lab. of Nuclear Reactions, JINR, Dubna (XJ)), e-mail: fomichev@jinr.ru; Mukha, I. (GSI Helmholtzzentrum fuer Schwerionenforschung, Darmstadt (DE)); Pfuetzer, M. (IEP, Univ. of Warsaw, Warsaw (PL))

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Kuchinskiy, N.A.; Baranov, V.A.; Duginov, V.N. (Joint Inst. for Nuclear Research, Dubna (XJ)), e-mail: kuchinski@jinr.ru (and others)

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Sytov, A.I.; Tikhomirov, V.V. (Inst. for Nuclear Problem of Belarussian State Univ., Minsk (BY)), e-mail: alex_sytov@mail.ru

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Generalov, L.N.; Karpov, I.A.; Fedotov, D.A. (All-Russia Research Inst. of Experimental Physics, RFNC-VNIIEF, Sarov (RU)), e-mail: generalov@expd.vniief.ru

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Khrutchinsky, A.A.; Kuten, S.A. (Research Inst. for Nuclear Problems, Belarussian State Univ., Minsk (BY)), e-mail: kut@inp.bsu.by

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Khrutchinsky, A.A.; Kuten, S.A. (Inst. for Nuclear Problem, Belarusian State Univ., Minsk (BY)), e-mail: kut@inp.bsu.by; Babichev, L.F. (Joint Inst. for Power and Nuclear Research - Sosny, National Academy of Sciences of Belarus, Minsk (BY))

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The results of numerical simulation of the detection device and measurement geometry for deep radiation monitoring

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GEANT4 Monte Carlo calculated dosimetry parameters for ¹⁶⁹Yb S62

Belousov, A.V.; Kalachev, A.A.; Krusanov, G.A.; Osipov, A.S. (M.V. Lomonosov Moscow State Univ., Dept. of Physics, Moscow (RU)), e-mail: BelousovAV@physics.msu.ru

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Kadmenskii, A.G.; Chechenin, N.G. (Lomonosov Moscow State Univ., Skobeltsyn Inst. of Nuclear Physics, Moscow (RU)), e-mail: chechenin@sinp.msu.ru

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Verenich, K.A.; Minenko, V.F.; Khrutchinsky, A.A.; Kuten, S.A. (Research Inst. for Nuclear Problems, Minsk (BY)), e-mail: kiryl_verenich@tut.by

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Arlychev, M.A.; Ogorodnikov, S.A.; Shevelev, I.E. (LLC Scantronic Lab., St. Petersburg (RU)), e-mail: sergey.ogorodnikov@scantronicsystems.com

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Belousov, A.V.; Chernyaev, A.P.; Kalachev, A.A.; Krusanov, G.A. (M.V. Lomonosov Moscow State Univ., Faculty of Physics, Moscow (RU)), e-mail: krusanov@physics.msu.ru

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Barsuk, S.; Burmistrov, L.; Variola, A. (Lab. de l'Accelérateur Lineaire (LAL), Orsay (FR)) (and others)

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The book of abstracts includes materials of the VI School-conference of young nuclear scientists of Siberia. In the materials there are the results of scientific research concerning advances in nuclear-chemical technologies, automation of technological processes, application of modern information technologies in nuclear industry and energetics, as well as actual problems of nuclear nonproliferation, safety and ecology of nuclear industry, perspectives for development of nuclear energetics and nuclear medicine

Сборник включает материалы VI Школы-конференции молодых атомщиков Сибири. Приводятся результаты научных исследований, связанных с совершенствованием ядерно-химических технологий, автоматизацией технологических процессов, применением современных информационных технологий в атомной промышленности и энергетике, а также актуальными вопросами ядерного нераспространения, безопасности и экологии атомной отрасли, перспективными направлениями развития ядерной энергетики и ядерной медицины

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Gusarov, M.A.; Noskov, M.D. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: mix.gusaroff@yandex.ru

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Lobanenko, A.I.; Fomicheva, M.S. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: alexandr_lobanenko@mail.ru

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Nedospasov, A.A.; Gutsul, M.V.; Noskov, M.D. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: onotole.great@mail.ru

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Sakirko, G.K.; Istomin, A.D.; Noskov, M.D. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: nmd@ssti.ru

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Shrajner, A.Eh.; Noskov, M.D. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: Artshrayner@gmail.com

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Effective method of high-level radioactive waste immobilization

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*Sedanova, E.P.; Zhvyrblyya, V.Yu.; Sednev, D.A. (Tomskij Politehnicheskij Univ., Tomsk (RU)),
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Synthesis of phosphors on the base of rare earths obtained by uranium combined mining

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*Kharisova, A.E.; Denisov, S.V.; Ryzhakova, N.K. (Tomskij Politekhničeskij Univ., Tomsk (RU)),
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Khorokhorin, V.S.; Semenov, S.S.; Tsirkunov, P.T.; Guzeev, V.V. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: xoroxor@sibmail.com

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Cherepennikov, Yu.M.; Gogolev, A.S. (Tomskij Politekhnikeskij Univ., Tomsk (RU)), e-mail: che@scalpnet.ru

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Valitov, S.N.; Istomin, A.D.; Noskov, M.D.; Cheglov, A.A. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: valitovstas@yandex.ru

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Test position of density distribution of vibrocompacted MOX-fuel and plutonium along RU BN-800 fuel element length

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Ismagilov, M.F. (AO Nauka i Innovatsii, Moscow (RU); AO NIITFA, Moscow (RU); NIYaU MIFI, Moscow (RU)), e-mail: ismagilov-1989@yandex.ru; Skachkov, E.V. (AO Nauka i Innovatsiyi, Moscow (RU); AO NIITFA, Moscow (RU)); Kadilin, V.V. (NIYaU MIFI, Moscow (RU))

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Leveling system of research laser facilities

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Latyshev, R.V.; Ageev, A.Yu. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU)), e-mail: RVLatyshev@gmail.com; Lopatnikov, S.I. (Rossijskij Federal'nyj Yadernyj Tsentr - Vserossijskij Nauchno-Issledovatel'skij Inst. Ehksperimental'noj Fiziki, Sarov (RU))

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Mathematical model of uranium hexafluoride desublimation process

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Malyugin, R.V.; Orlov, A.A.; Tsimbalyuk, A.F. (Tomskij Politekhnikeskij Univ., Tomsk (RU)), e-mail: malyugin@tpu.ru

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Software package for simulating powder presswork

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Matolygina, D.A. (Moskovskij Gosudarstvennyj Univ. im. M.V. Lomonosova, Moscow (RU));

Matolygin, A.A. (Tomskij Gosudarstvennyj Univ. Sistem Upravleniya i Radioehlektroniki, Tomsk

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Numerical simulation of mixing chamber of centrifugal extractor for radiochemical manufactures

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Politov, A.Yu.; Nikulin, S.L. (AO SverdNIIkhimmash, Ekaterinburg (RU)); Khomyakov, A.P.;

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Postnikov, A.S.; Ketov, A.S. (Severskij Tekhnologicheskij Inst. NIYaU MIFI, Seversk (RU); AO NPF Mikran, Tomsk (RU)); Abramenko, A.Yu. (AO NPF Mikran, Tomsk (RU)), e-mail: sibatom2014@yandex.ru

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This volume presents papers of the participants of XIV International conference #Left Double Quotation Mark#NPP Safety and Training#Right Double Quotation Mark# held 25-27 November 2015 in Obninsk. Collection is prepared by teachers, research staff and students of NRNU MEPhI, INPE NRNU MEPhI, scientists and specialists of institutions of the State Corporation Rosatom, academic, scientific and industrial organizations in Russia and abroad. They reflect the level of researches in nuclear physics and energetics, nuclear medicine, electronics and automation, as well as advances in improving the efficiency and safety of nuclear power installations, environmental protection and training for the nuclear power industry

Представлены тезисы докладов участников XIV Международной конференции #Left Double Quotation Mark#Безопасность АЭС и подготовка кадров#Right Double Quotation Mark#, проходившей 25-27 ноября 2015 г. в Обнинске. Материалы сборника подготовлены преподавателями, научными сотрудниками, аспирантами и студентами НИЯУ МИФИ, ИАТЭ НИЯУ МИФИ, учеными и специалистами институтов Госкорпорации Росатом, академических, научных, научно-производственных организаций России и зарубежных стран. Они отражают уровень исследований в ядерной физике и энергетике, в ядерной медицине, электронике и автоматике, а также достижения в области повышения, эффективности и безопасности ЯЭУ, охраны окружающей среды и подготовки кадров для ядерно-энергетической отрасли

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Experience of personnel training in nuclear industry to improve safety culture
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LABOR RELATIONS; SAFETY CULTURE; KNOWLEDGE MANAGEMENT; NUCLEAR
INDUSTRY

**Experience of LPPS JSC #Left Double Quotation Mark#Concern
Rosenergoatom#Right Double Quotation Mark# in ensuring the reliability of the
human factor and high safety culture among personnel**

S22

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**Issues of leadership for security and safety culture: experience in preparing of
NPP for the mission OSART**

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Dogov, A.A.; Korovin, Yu.A.; Kuptsov, I.S. (IATEh NIYaU MIFI, Obninsk (RU)), E-mail: AADogov@gmail.com

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Diachenko, A.I.; Artisiuk, V.V. (ROSATOM-CICE&T, Obninsk (RU)), E-mail:

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D'yachenko, A.I.; Artisyuk, V.V. (NOU DPO TsIPK Rosatoma, Obninsk (RU)), E-mail: dyachenko@scicet.ru

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TECHNOLOGY ASSESSMENT

Assessment of hydrogen continuous degassing near geological fault in the Kalinin NPP surveillance zone

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Ignatenko, G.K.; Gremchenko, P.I. (IATEh NIYaU MIFI, Obninsk (RU)), E-mail:

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Kievets, M.K. (GNU OIEhYaI-Sosny NAN Belarusi, Minsk (BY)); Sosnin, A.N. (Ob''edinennyj Inst. Yadernykh Issledovaniy, Dubna (XJ))

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Mel'nikova, T.V.; Polyakova, L.P. (IAEh NIYaU MIFI, Obninsk (RU)); Luk'yanova, N.N. (NPO TAJFUN, Obninsk (RU)), E-mail: lnn@rpatyphoon.ru, tritel2010@gmail.com

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Milinchuk, V.K.; Klinshpont, Eh.R.; Belozarov, V.I.; Aleksandrova, V.V.; Buryakova, V.A.; Karpikova, O.I.; Sadikov, Eh.I.; Khavroshina, I.S. (IAEh NIYaU MIFI, Obninsk (RU))

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Ratis, Yu.L. (OOO Inst. Ehnergetiki Spetsial'nogo Naznacheniya, Samara (RU))

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Fedorov, M.I. (IATEh NIYaU MIFI, Obninsk (RU)), E-mail: FedorovMikhail@bk.ru;

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Shoshina, R.R.; Synzynys, B.I.; Cherkasova, E.E. (IATEh NIYaU MIFI, Obninsk (RU)), E-mail: regina.rinatovna.m@mail.ru; Lavrent'eva, G.V. (IATEh NIYaU MIFI, Obninsk (RU); KF MGTU im. N.Eh. Bauman, Kaluga (RU))

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Aleksandrova, O.P.; Matusevich, E.S. (IATEh NIYaU MIFI, Obninsk (RU)); Snigirev, E.V.; Kurachenko, Yu.A. (AO GNTs RF - FEhI, Obninsk (RU)), E-mail: evgsnigirev@yandex.ru; Klepov, A.N. (NPP DIONIS, Obninsk (RU))

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Artamonov, S.A.; Anokhin, Yu.N. (IATEh NIYaU MIFI, Obninsk (RU)), E-mail: artdom06@mail.ru, yuri@iate.obninsk.ru; Akulinichev, S.V.; Chaushanskij, S.A. (IYaI RAN, Troitsk (RU)), E-mail: akulinic@inr.ru, chaushsergej@yandex.ru

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Zakharkiv, A.Yu.; Anokhin, Yu.N. (IATEh NIYaU MIFI, Obninsk (RU)), E-mail:

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Kurachenko, Yu.A. (AO GNTs RF - FEhI, Obninsk (RU)), E-mail: yukurachenko@ippe.ru; Aleksandrova, O.P. (IATEh NIYaU MIFI, Obninsk (RU)); Klepov, A.N. (NPP DIONIS, Obninsk (RU))

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Snigirev, E.V.; Kurachenko, Yu.A. (AO GNTs RF - FEhI, Obninsk (RU)), E-mail: evgsnigirev@yandex.ru; Aleksandrova, O.P. (IATEh NIYaU MIFI, Obninsk (RU)); Klepov, A.N. (NPP DIONIS, Obninsk (RU))

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Fedorova, A.V.; Matusevich, E.S. (IAEh NIYaU MIFI, Obninsk (RU)); Kurachenko, Yu.A. (AO GNTs RF - FEhI, Obninsk (RU)), E-mail: yukurachenko@ippe.ru

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Askhadullin, R.Sh.; Martynov, P.N.; Legkikh, A.Yu.; Storozhenko, A.N. (AO GNTs RF - FEhI, Obninsk (RU)), E-mail: alegkikh@ippe.ru

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Barabanov, D.D.; Chuev, V.V. (Beloyarskaya AEhS, Zarechnyj (RU)), E-mail: post@belnpp.ru

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Belozеров, V.I.; Sitdikov, Eh.R. (IATEh NIYaU MIFI, Obninsk (RU)), E-mail: emilsitdikov@gmail.com

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Belousov, P.A.; Alontseva, E.N. (IATEh NIYaU MIFI, Obninsk (RU)), E-mail: PABelousov@mephi.ru; Sidorov, E.B.; Fomin, A.I. (OOO InEhnergo, Obninsk (RU))

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Belousov, P.A.; Skomorokhov, A.O. (IATEh NIYaU MIFI, Obninsk (RU)), E-mail:

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Bogomolov, V.N.; Zybin, M.P.; Shutov, S.S.; Boltunov, A.N. (AO GNTs RF - FEhI, Obninsk (RU)), E-mail: bgmlv@ippe.ru

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Bochkarev, A.S.; Merinov, I.G.; Korsun, A.S. (NIYaU MIFI, Moscow (RU)); Alekseev, P.N.

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Bykovskij, A.V. (IATEh NIYaU MIFI, Obninsk (RU)), E-mail: nvfallen@gmail.com

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Gordeev, A.S. (AO TsPTI, Moscow (RU)), E-mail: ASeGordeev@rosatom.ru

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Dvornikov, P.A.; Luk'yanov, D.A.; Albutova, O.I.; Anan'ev, A.A.; Kudryaev, A.A.; Yugov, S.I. (AO GNTs RF - FEhI, Obninsk (RU)), E-mail: dlukyanov@ippe.ru

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Dekusar, V.M.; Ivanov, R.Eh.; Korobejnikov, V.V. (AO GNTs RF - FEhI, Obninsk (RU)), E-mail: Rivanov07@yandex.ru

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Choice of effective scripts for transmutation MA taking into account the economic cost

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RADIOACTIVITY; AMERICIUM; CURIUM; WASTE DISPOSAL; TRANSMUTATION;
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Research results of distribution and attenuation of acoustic vibrations in the elements of steam generator #Left Double Quotation Mark#Sodium - Water#Right Double Quotation Mark# designs

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4 refs.

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Luk'yanov, D.A.; Anan'ev, A.A.; Boltunov, A.N.; Yugov, S.I. (AO GNTs RF - FEhI, Obninsk (RU)), E-mail: dlukyanov@ippe.ru

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Optimizatsiya sostava materiala radiatsionnoj zashchity

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**Experimental study of hydraulics and heat-mass exchange in performance
justification of PWR core cooling passive systems**

S21

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Experimental study of heat transfer in staggered beam of spiral finned tubes

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Study of homogeneous protection from neutron radiation

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Involvement of reprocessed uranium of WWER-1000 spent nuclear fuel in the

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Optimal configuration of WWR-c reactor core

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Stepanova, Yu.V.; Karazhelevskaya, Yu.E.; Kolesov, V.V.; Terekhova, A.M. (IATEh NIYaU MIFI, Obninsk (RU)), E-mail: step_17_ju@mail.ru

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Tashlykov, O.L.; Shcheklein, S.E. (Ural'skij Federal'nyj Univ. imeni Pervogo Prezidenta Rossii B.N. El'tsina, Ekaterinburg (RU)); Nosov, Yu.V. (Beloyarskaya AEhS, Zarechnyj (RU))

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Intellectual control system on the basis of Smart Grid-Technologies for electrical supply of industrial facilities

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STEAM GENERATORS; LIQUID METALS; REACTOR SAFETY; COMPUTER CALCULATIONS; MATHEMATICAL MODELS; THERMAL HYDRAULICS

Experimental investigations of heat transfer when sodium boiling in model of fuel assembly in support of fast reactor safety

S21

Khafizov, R.R.; Trufanov, A.A.; Sorokin, A.P.; Ivanov, E.F.; Privezentsev, V.V. (AO GNTs RF - FEhI, Obninsk (RU)), E-mail: rhafizov@ippe.ru

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Status and development of nuclear power in the Russian Federation, CIS countries and in countries that use Russian nuclear energy technologies

S21

Chebeskov, A.N. (AO GNTs RF - FEhI, Obninsk (RU)), E-mail: chebes@ippe.ru

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Sostoyanie i razvitie yadernoj ehnergetiki v Rossijskoj Federatsii, v stranakh SNG i v stranakh, kotorye ispol'zuyut rossijskie yaderno-ehnergeticheskie tekhnologii

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Coolant flow model based on Chapman-Enskog higher approximations

S21

Chusov, I.A.; Shelegov, A.S.; Rassolov, A.V. (IATEh NIYaU MIFI, Obninsk (RU)), E-mail: igrch@mail.ru

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Model' techeniya teplonositelya na osnove vysshikh priblizhenij metoda Chepmana-Ehnskoga p. 287-288

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Tests of temperature, gas and radiation monitoring systems of WWER coolant leak on the #Left-Pointing Double Angle Quotation Mark#SKTV-2M#Right-Pointing Double Angle Quotation Mark# bench

S21

Shutov, P.S.; Kudryaev, A.A.; Khryachkova, A.V. (AO GNTs RF FEhI, Obninsk (RU))

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Ispytaniya temperaturnoj, gazovoj i radiatsionnoj sistem kontrolya techi teplonositelya RU

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NUCLEAR POWER PLANTS; WWER TYPE REACTORS; BENCH-SCALE

EXPERIMENTS; REACTOR SAFETY; LEAKS; REACTOR COOLING SYSTEMS;

COMPUTERIZED SIMULATION

Critical elements passive cooling by multicomponent coolant steam-dynamic systems in emergency situations

S22

Shcheklein, S.E.; Nikitin, A.D.; Zhukov, A.V.; Nemikhin, Yu.E. (Ural'skij Federal'nyj Univ. imeni

Pervogo Prezidenta Rossii B.N. El'tsina, Ekaterinburg (RU)), E-mail: ale772009@yandex.ru

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Passivnoe okhlazhdenie kriticheskikh ehlementov v avarijnykh situatsiyakh parodinamicheskimi

sistemami s mnogokomponentnym teplonositelem

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REACTOR SAFETY; NUCLEAR POWER PLANTS; REACTOR CORES; SPENT FUELS;
HEAT TRANSFER; HEAT EXCHANGERS; COOLING

Results of the scientific and technical activities of the Nuclear Reactors and Thermal Physics Institute for 2014. Scientific and technical collection

S22

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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

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LEADING ABSTRACT; WWER TYPE REACTORS; THERMONUCLEAR REACTORS;
COOLANTS; LIQUID METALS; CRITICAL PRESSURE; WATER; REACTOR SAFETY;
NEUTRONS; THERMAL HYDRAULICS

In the collection there are the main results of research and development obtained by the researchers of the Nuclear Reactors and Thermal Physics Institute FSUE SSC RF - IPPE in 2014, the problems and questions of further investigations are formulated and discussed. Considerable body of data on neutronic, thermohydraulic and technological studies carried out in the frameworks of Proryv project are presented, calculational and experimental justification of design choices and safety of projects on RU BN-1200, multipurpose research reactor MBIR with sodium coolant, RU BREST-OD-300 with lead coolant are among them. The results of experimental and calculational thermophysical investigations in justification of operation conditions and safety of nuclear power plants with water-cooled reactors (WWER-1000, WWER-TOI), pilot studies on innovation project WWER-SKD with supercritical water, in justification of thermonuclear reactor blanket are given

В сборнике представлены основные результаты НИОКР, полученные в 2014 году сотрудниками Института ядерных реакторов и теплофизики ГНЦ РФ - ФЭИ, сформулированы и обсуждаются вопросы и задачи дальнейших исследований. Представлен значительный объем нейтронно-физических, теплогидравлических и технологических исследований, выполненных в рамках проекта Прорыв, включая расчетно-экспериментальное обоснование проектных решений и безопасности по проектам РУ БН-1200, многоцелевого исследовательского реактора МБИР с натриевым теплоносителем, РУ БРЕСТ-ОД-300 со свинцовым теплоносителем. Изложены результаты экспериментальных и расчетных теплофизических исследований в обоснование эксплуатационных режимов и безопасности АЭС с водоохлаждаемыми реакторами (ВВЭР-1000, ВВЭР-ТОИ), поисковых исследований по инновационному проекту ВВЭР-СКД с водой сверхкритического давления, в обоснование термоядерного реактора и т.д.

Main research results in the field of nuclear power engineering of the Nuclear Reactors and Thermal Physics Institute in 2014

S21

Trufanov, A.A.; Orlov, Yu.I.; Sorokin, A.P.; Chernonog, V.L.

Osnovnye rezul'taty issledovaniy v oblasti yadernoj ehnergetiki Instituta yadernykh reaktorov i teplofiziki v 2014 godu

p. 6-23

(RU)

12 refs., 18 figs., 2 tabs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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

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318 p.

FAST REACTORS; WWER TYPE REACTORS; REACTOR SAFETY; LIQUID METALS; REACTOR OPERATION; REACTOR DECOMMISSIONING; THERMAL HYDRAULICS; VERIFICATION; INTERNATIONAL COOPERATION; COOLANTS

The main results of scientific and technological activities for last years of the Nuclear Reactors and Thermal Physics Institute FSUE SSC RF - IPPE in solving problems of nuclear power engineering are presented. The work have been carried out on the following problems: justification of research and development solutions and safety of NPPs with fast reactors of new generation with sodium (BN-1200, MBIR) and lead (BREST-OD-300) coolants, justification of safety of operating and advanced NPPs with WWER reactor facilities (WWER-1000, AEhS 2006, WWER-TOI), development and benchmarking of computational codes, research and development support of Belyarsk-3 (BN-600) and Bilibino (BN-800) NPPs operation, decommissioning of AM and BR-10 research reactors, pilot scientific studies (WWER-SKD, ITER), international scientific and technical cooperation. Problems for further investigations are charted

Представлены основные результаты научно-технической деятельности за последние годы Института ядерных реакторов и теплофизики ГНЦ РФ - ФЭИ по решению задач ядерной энергетики. Работа проводилась по следующим направлениям: обоснование проектно-конструкторских решений и безопасности АЭС с реакторами на быстрых нейтронах нового поколения с натриевым (БН-1200, МБИР) и свинцовым (БРЕСТ-ОД-300) теплоносителями, обоснование безопасности работы действующих и перспективных АЭС с РУ ВВЭР (ВВЭР-1000, АЭС 2006, ВВЭР-ТОИ), разработка и аттестация расчетных кодов, научно-техническое сопровождение эксплуатации энергоблока-3 Белоярской (РУ БН-600) и Билибинской (РУ БН-800) АЭС, вывод из эксплуатации исследовательских реакторов АМ и БР-10, поисковые научные исследования (ВВЭР-СКД, ИТЭР и т.д.), международное научно-техническое сотрудничество. Намечены задачи дальнейших исследований

Scientific school of SSC RF - IPPE Heat and mass transfer, physical chemistry and technology of coolants in energy systems

S22

Efanov, A.D.; Kozlov, F.A.; Rachkov, V.I.; Sorokin, A.P.; Chernonog, V.L.

Nauchnaya shkola GNTs RF - FEhI Teplo- i massoperenos, fizicheskaya khimiya i tekhnologiya teplonositelej v ehnergeticheskikh sistemakh

p. 24-51

(RU)

35 refs., 5 figs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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FAST REACTORS; WATER; LIQUID METALS; COOLANTS; PERSONNEL; RESEARCH PROGRAMS; THERMODYNAMICS; MASS TRANSFER; HEAT TRANSFER; REACTOR SAFETY; DATA PROCESSING; SCIENTIFIC PERSONNEL; EDUCATION; NUCLEAR FACILITIES

The main results of the Scientific school (SS) activities from its creation to the present day on the problems of coolant (liquid metals, water) heat and mass transfer and hydrodynamics, of physical chemistry and technology of liquid metal coolants for various nuclear power facilities of different purposes (NPP, atomic submarines, space vehicles) are given. The consideration is given to the problems of thermophysical codes developing; investigations in justification of nuclear-power facilities safety; innovation projects; technologies of liquid metal nonnuclear application; systematization, analysis and generalization of thermophysical data. The conditions of formation of SS personnel potential and its experimental facilities are described. The goals of SS at present stage and in future are discussed

Изложены основные результаты деятельности научной школы (НШ) от ее зарождения по настоящее время по проблемам тепло- и массопереноса и гидродинамики теплоносителей (жидкие металлы, вода), физической химии и технологии жидкометаллических теплоносителей для ядерно-энергетических установок различного назначения (АЭС, атомные подводные лодки, космические аппараты). Рассмотрены вопросы разработки теплофизических кодов, исследования в обоснование безопасности ядерно-энергетических установок; инновационные проекты; неядерные технологии использования жидких металлов; систематизация, анализ и обобщение теплофизических данных. Описаны условия формирования кадрового потенциала НШ и ее экспериментальной базы, современное состояние по этим вопросам. Обсуждаются задачи НШ на современном этапе и в будущем

Radiation aspects of fuel handling at various variants of fuel cycle organization **S11**

Zabrodskaya, S.V.; Levanova, M.V.; Khokhlov, G.N.; Tsikunov, A.G.

Radiatsionnye aspekty obrashcheniya s toplivom pri razlichnykh varuantakh organizatsii toplivnogo tsikla

p. 52-63

(RU)

5 refs., 2 figs., 10 tabs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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MIXED OXIDE FUELS; ACTINIDES; ISOTOPE RATIO; TRANSMUTATION; POWER DISTRIBUTION; RADIOACTIVITY; LMFBR TYPE REACTORS; POWER REACTORS; DOSE RATES; NEUTRONS; CURIUM ISOTOPES; SPENT FUELS; COMPARATIVE EVALUATIONS

A series of radiation characteristics of fresh and spent fuel assemblies with mixed uranium-plutonium oxide (MO) fuel of high-power BN-type reactor with limited content of minor actinides in origin fuel is obtained. The assessment is given for possible radiation characteristics of experimental MO fuel assemblies simulating transmutation of minor actinides (Np, Am, Cm). The obtained results can be used for solving practical problems related with minor actinides transmutation in high-power reactor. In particular, the conclusion is made that curium transmutation is impossible (especially ^{244}Cm) in fuel assemblies of reactor under consideration due to high level of power distribution and neutron radiation of fresh MO fuel assemblies with curium

Исследован ряд радиационных характеристик свежих и отработавших тепловыделяющих сборок со смешанным оксидным уранплутониевым топливом (МОКС-ТВС) реактора большой мощности типа БН с ограниченным содержанием минорных актинидов в исходном топливе. Дана оценка возможных радиационных характеристик экспериментальных МОКС-ТВС, моделирующих трансмутацию минорных актинидов (Np, Am, Cm). Полученные результаты могут быть использованы для решения практических задач, связанных с трансмутацией минорных актинидов в реакторе большой мощности. В частности, сделан вывод о невозможности осуществления трансмутации кюрия (главным образом ^{244}Cm) в топливных сборках рассматриваемого реактора, из-за высокого уровня тепловыделения и нейтронного излучения в свежих МОКС-ТВС с кюрием

Physical characteristics of MBIR reactor with alternative types of oxide fuel **S21;S11**

Eliseev, V.A.; Korobejnikova, L.V.; Malysheva, I.V.; Matveev, V.I.; Maslov, P.A.; Chernyj, V.A.
Fizicheskie kharakteristiki reaktora MBIR s al'ternativnymi vidami oksidnogo topliva
p. 64-70

(RU)

10 refs., 7 tabs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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FAST REACTORS; MIXED OXIDE FUELS; FUEL PELLETS; NEUTRON FLUX;
NEUTRON FLUENCE; COMPUTERIZED SIMULATION; COMPARATIVE
EVALUATIONS

Various variants of fuel compositions for research reactor MBIR: oxide uranium fuel (on the base of uranium-235), mixed oxide fuel pellets (depleted uranium dioxide and plutonium dioxide), combined vibroMOX-fuel are under consideration. The calculation results of physical characteristics of MBIR reactor core when using fuel compositions studied are given, their advantages and disadvantages are discussed. It is shown that the only acceptable variant is standard vibro-packed fuel from granulates of plutonium dioxide (38.8%) and depleted uranium dioxide. It is pointed out that the quality of neutron flux (its ability to radiation damage of materials) in MBIR is essentially higher than in power reactors

Рассмотрены различные варианты топливных композиций для исследовательского реактора МБИР: оксидное урановое топливо (на основе урана-235), таблеточное смешанное оксидное (МОКС) топливо (диоксид обедненного урана и диоксид плутония), комбинированное виброМОКС-топливо. Представлены результаты расчетов физических характеристик активной зоны реактора МБИР при использовании изученных топливных композиций, рассмотрены их преимущества и недостатки. Показано, что единственным приемлемым вариантом является штатное виброуплотненное топливо, состоящее из гранулятов диоксида плутония (38,8%) и диоксида обедненного урана. Отмечается, что качество нейтронного потока (его способность приводить к радиационному повреждению материалов) в МБИР существенно выше, чем в энергетических реакторах

On possibility of nitride and metal fuel use in reactor core of MBIR reactor **S11**

Eliseev, V.A.; Korobejnikova, L.V.; Maslov, P.A.; Malysheva, I.V.; Matveev, V.I.; Demeneva, I.V.

O vozmozhnosti ispol'zovaniya nitridnogo i metallicheskogo topliva v aktivnoj zone reaktora MBIR

p. 71-76

(RU)

12 refs., 4 tabs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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NUCLEAR FUELS; MIXED OXIDE FUELS; COMPARATIVE EVALUATIONS; RESEARCH REACTORS; FAST REACTORS; NEUTRON FLUENCE; REACTOR CORES

The results of calculational studies of physical characteristics of MBIR reactor when using advanced dense fuels, nitride and metallic, are presented. It is shown that nitride fuel do not allow to get the required value of neutron flux, metal fuel provides the necessary flux but temperature conditions of irradiation must be changed. Neutronic features of these fuels in comparison with standard MOX-fuel are opened

Представлены результаты расчетных исследований физических характеристик реактора МБИР при использовании перспективных плотных видов топлива - нитридного и металлического. Показано, что нитридное топливо не позволяет получить требуемую величину нейтронного потока, металлическое топливо обеспечивает нужный поток, но требует изменения температурных условий облучения. Раскрыты нейтронно-физические особенности этих видов топлива в сравнении со штатным МОКС-топливом

Experimental investigations for determination of heat-transfer coefficients and temperature fields in simulated fuel assemblies of BREST reactor with fuel elements spaced by transverse grids

S42

Kuzina, Yu.A.; Zhukov, A.V.; Sorokin, A.P.; Rymkevich, K.S.; Privezentsev, V.V.

Ehksperimental'nye issledovaniya koehffitsientov teplootdachi i temperaturnykh polej v model'nykh TVS reaktora BREST s tvehlami, distantsioniruemymi poperechnymi reshetkami p. 77-88

(RU)

12 refs., 19 figs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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

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318 p.

FAST REACTORS; COOLANTS; LIQUID METALS; SIMULATION; FUEL ASSEMBLIES;
SODIUM ALLOYS; POTASSIUM ALLOYS; EUTECTICS; TEMPERATURE
DISTRIBUTION; FINS; THERMAL HYDRAULICS; NUSSELT NUMBER; HEAT
TRANSFER

The consideration is given to heat transfer and temperature fields in fuel pin bundles with transverse spacer grids ($s/d = 1.33$) equally spaced along energy deposition length. Experimental data are obtained on two simulated 37-rod core assemblies: one assembly is with uniform geometry along the cross-section and in the other there is nonheated rod simulating supporting pipe in fuel assembly of reactor with heavy coolant. Eutectic Na-K alloy is used as coolant. Nusselt numbers and temperature nonuniformity along the perimeter of measurement fuel element simulator obtained in these assemblies are compared as well as available data for finned (wire to wire) fuel rods

Рассматриваются теплоотдача и поля температур в широких решетках твэлов ($s/d = 1,33$), дистанционируемых поперечными решетками, равномерно расположенными по длине энерговыделения. Экспериментальные данные получены на двух 37-стрержневых модельных сборках: одна сборка с однородной по поперечному сечению геометрией, в другой присутствует необогреваемый стержень, моделирующий несущую трубу в ТВС реактора с тяжелым теплоносителем. В качестве теплоносителя используется эвтектический сплав Na-K. Проведено сравнение полученных в этих сборках чисел Нуссельта и неравномерностей температуры по периметру измерительного имитатора твэла, а также имеющихся данных для оребренных стержней (ребро по ребру)

Problems of decay heat removal during sodium cooled fast reactor accidents **S22**

Sorokin, A.P.; Opanasenko, A.N.; Zaryugin, D.G.

Problemy otvoda tepla ostatochnogo ehnergovydeleniya pri avariyaх dlya reaktorov na bystrykh nejtronakh s natrievym okhlazhdeniem

p. 89-101

(RU)

20 refs., 12 figs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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LIQUID METAL COOLED REACTORS; SODIUM; COOLANTS; BENCHMARKS;
VERIFICATION; AFTER-HEAT REMOVAL; RHR SYSTEMS

The ways of technical solution of the problem of fast reactor emergency cooldown are considered. The results of works on experimental justification of the emergency heat removal system (EHRS) of reactor facilities of new generation with sodium coolant are discussed. The results of experimental studies on water model of V-200 integral bench and the problems of experiments planning on TISEJ bench for conducting the final cycle of experiments on justification of efficiency and operation modes of EHRS of BN type reactor facilities are demonstrated. Some results of numerical simulation of EHRS operation in cooldown conditions using design calculation codes BURAN, GRIF and Flow Vision are given. It is shown that obtained data can be qualitatively adapted on the full-scale sodium model and be used for verification of codes applying for justification of system operability

Рассмотрены способы технического решения проблемы аварийного расхолаживания быстрых реакторов. Обсуждаются результаты работ по экспериментальному обоснованию системы аварийного отвода тепла (САОТ) реакторных установок нового поколения с натриевым теплоносителем. Демонстрируются результаты экспериментальных исследований на водяной модели интегрального стенда В-200 и вопросы планирования экспериментов на стенде ТИСЕИ для проведения заключительного цикла экспериментов в обоснование эффективности и режимов работы САОТ РУ типа БН. Приведены отдельные результаты численного моделирования работы САОТ в режиме расхолаживания реактора с помощью проектных расчетных кодов БУРАН, GFIF и Flow Vision. Показано, что полученные данные могут быть перенесены на натурную натриевую модель и использованы для верификации кодов, используемых для обоснования работоспособности системы

Experimental investigations of temperature fields and coolant flow structure on the model of fast reactor on the B-200 bench in elements of primary circuit at transition to natural circulation cooling

S22

Opanasenko, A.N.; Sorokin, A.P.; Zaryugin, D.G.; Fedorov, A.V.

Ehksperimental'nye issledovaniya polej temperatury i struktury dvizheniya teplonositelej na modeli bystrogo reaktora na stende V-200 v ehlementakh pervogo kontura pri perekhode k raskholazhivaniyu estestvennoj tsirkulyatsiej

p. 102-111

(RU)

9 refs., 13 figs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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FAST REACTORS; REACTOR OPERATION; BENCHMARKS; REACTOR COOLING SYSTEMS; EFFICIENCY; AFTER-HEAT REMOVAL; REACTOR SAFETY; COOLANTS;

WATER; VERIFICATION; PULSATIONS; TEMPERATURE GRADIENTS; TEMPERATURE RANGE 0273-0400 K

The results of experimental studies on integral water model show that the emergency heat removal system of high-energy reactor of BN type has high efficiency of heat removal. Thus, under normal conditions decay heat removal is provided without the excess of reactor safe operation limits. It is pointed out that it is necessary to carry out further justification of efficiency and operation conditions of the system under consideration with the help of calculational codes verified on experimental data obtained on V-200 bench. In stationary operation conditions the stable temperature stratification is determined in cold chamber, in the coolant outlet from intermediate and independent heat exchangers, along the elevator partition height. On the hot-cold zone interface of stratified formations significant gradients and pulsations of temperature are fixed

Результаты экспериментальных исследований на интегральной водяной модели показывают, что система аварийного отвода тепла реактора типа БН большой мощности обладает высокой эффективностью теплоотвода. Так, в штатном режиме обеспечивается отвод остаточного энерговыделения от реактора без превышения пределов безопасной эксплуатации. Отмечается, что дальнейшее обоснование эффективности и режимов работы рассматриваемой системы необходимо проводить с помощью расчетных кодов, верифицированных на экспериментальных данных, полученных на стенде В-200. В стационарных режимах работы устойчивое температурное расслоение зафиксировано в холодной камере, на выходе теплоносителя из промежуточного и автономного теплообменников, по высоте элеваторной выгородки. На границах раздела холодной и горячей зон стратифицированных образований зафиксированы значительные градиенты и пульсации температуры

Experimental investigations of heat transfer during sodium boiling in fuel assembly model in justification of advanced fast reactor safety

S42

Khafizov, R.R.; Poplavskij, V.M.; Rachkov, V.I.; Sorokin, A.P.; Ashurko, Yu.M.; Volkov, A.V.; Ivanov, E.F.; Privezentsev, V.V.

Eksperimental'nye issledovaniya teploobmena pri kipenii natriya v modeli TVS v obosnovanie perspektivnogo reaktora na bystrykh nejtronakh

p. 112-123

(RU)

14 refs., 8 figs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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FAST REACTORS; HEAT TRANSFER; FORCED CONVECTION; NATURAL CONVECTION; REACTOR SAFETY; BOILING; SODIUM; COOLANTS; FUEL ASSEMBLIES; BENCHMARKS; C CODES; VERIFICATION; COMPARATIVE EVALUATIONS

The experimental facility is built up and investigation of heat exchange during sodium boiling in simulated fast reactor core assembly in conditions of natural and forced circulation with sodium plenum and upper end shield model are conducted. It is shown that in the presence of sodium plenum there is possibility to provide long-term cooling of fuel assembly when heat flux density on the surface of fuel element simulator up to 140 and 170 kW/m² in conditions of natural and forced circulation, respectively. The obtained data is used for improving calculational model of sodium boiling process in fuel assembly and calculational code COREMELT verification. It is pointed out that heat transfer coefficients in the case of liquid metal boiling in fuel assemblies are slightly over the ones in the case of liquid metals boiling in pipes and pool boiling

Создана экспериментальная установка и проведены исследования теплообмена при кипении натрия в модельной тепловыделяющей сборке (ТВС) реактора на быстрых нейтронах в режимах естественной и вынужденной циркуляции с натриевой полостью и моделью верхнего торцевого экрана. Показано, что при наличии натриевой полости существует возможность обеспечения длительного охлаждения ТВС при плотности теплового потока на поверхности имитатора твэлов до 140 и 170 кВт/м², соответственно, в режиме естественной и вынужденной циркуляции. Полученные данные используются для уточнения расчетной модели процесса кипения натрия в ТВС и верификации расчетного кода COREMELT. Отмечается, что коэффициенты теплоотдачи при кипении жидких металлов в сборках твэлов оказались несколько выше, чем при кипении жидких металлов в трубах и большом объеме

Mechanisms of the initial stage of fuel elements degradation of BN reactor fuel assemblies

S22

Zagorul'ko, Yu.I.; Kashcheev, M.V.; Ganichev, N.S.

Mekhanizmy nachal'noj stadii degradatsii tvehlov teplovydelyayushchikh sborok reaktorov BN p. 124-129

(RU)

7 refs., 2 figs., 1 tab.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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FAST REACTORS; LOSS OF COOLANT; LOSS OF FLOW; SODIUM; COOLANTS; REACTOR SAFETY; MATHEMATICAL MODELS; MELTDOWN; FUEL ELEMENTS; AUSTENITIC STEELS

On the base of developed calculational technique numerical evaluation is carried out to the time of fuel element fracture in conditions of loss of sodium flow through fuel element jacket. Data on mechanical properties of steel EhK-164 is used in calculations. Calculations are carried out for different conditions of jacket outer surface cooling: by sodium of 1073 K temperature, by boiling sodium and by sodium in condition of film boiling. It is shown that time to jacket fracture under considered rupture mechanisms essentially depends on fuel element cooling conditions

На основе разработанной расчетной методики проведена численная оценка времени до разрушения оболочки твэла в условиях потери расхода натрия через топливную оболочку. В расчетах использовались данные по механическим свойствам стали ЭК-164. Расчеты выполнялись для различных режимов охлаждения внешней поверхности оболочки: натрием с температурой 1073 К, кипящим натрием и натрием в режиме пленочного кипения. Показано, что время до разрушения оболочки под действием рассмотренных механизмов разрушения существенно зависит от условий охлаждения твэла

Justification procedure of hydrogen safety of RU BN compartments as exemplified by steam generator box

S22

Kruglikov, Yu.S.; Poplavskij, V.M.

Metodika obosnovaniya vodorodnoj bezopasnosti pomeshchenij RU BN na primere boksa parogeneratora

p. 130-140

(RU)

22 refs., 5 figs., 1 tab.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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STEAM GENERATORS; FAST REACTORS; SODIUM; COOLANTS; HYDROGEN; AIR CLEANING SYSTEMS; MATHEMATICAL MODELS; VAPOR EXPLOSIONS; REACTOR ACCIDENTS

Basic proposals on completing calculational procedures of sodium cooled reactors hydrogen safety justification, particularly steam generator (SG) box, are presented. It is pointed out that hydrogen appearance in SG box is possible only in accidents with multiple failures. The data presented shows that hydrogen safety and explosion-proofness of fast reactor facility SG box are provided without any special complex and expensive means

Приведены основные предложения по дополнению расчетных методик обоснования водородной безопасности охлаждаемых натрием реакторов, в частности бокса парогенератора (ПГ). Отмечается, что появление водорода в боксе ПГ возможно лишь при авариях с многочисленными отказами. Представленные данные показывают, что

водородная безопасность и взрывозащищенность бокса ПГ реакторной установки с реактором на быстрых нейтронах обеспечивается без применения каких-либо специальных сложных и дорогостоящих средств

Main features of protection system of large-modulus BN-type steam generator, results of design analysis of the processes at small and large leakage of water into sodium

S22

Myazdrikova, O.I.; Perevoznikov, S.V.; Pazin, G.N.; Borisov, V.V.; Pakhomov, I.A.

Osnovnye osobennosti sistemy zashchity krupnomodul'nogo parogeneratora tipa BN, rezultaty raschetnogo analiza protsessov pri mal'nykh i bol'shikh techakh vody v natrij

p. 141-150

(RU)

6 refs., 10 figs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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FAST REACTORS; STEAM GENERATORS; WATER; SODIUM; LEAKS; REACTOR PROTECTION SYSTEMS; HEAT TRANSFER; FLOW RATE; HYDRODYNAMICS

The main features of steam generator (SG) emergency protection system and the results of calculational analysis of the processes at small and large leakages of water into sodium for high-power fast reactor installation are considered. It is shown that at small leakages the use of devices of oxygen control into sodium in leakage monitoring subsystem allows to control effectively the most part (>99%) of SG large-modulus heat exchange surface. It is pointed out that hydrodynamic effects at large leakage of water into sodium in high-power SG are negligible and their use for well-timed monitoring of interloop leakiness is not effective. Thus, the most effective control of both small and large leakage of water into sodium in large-modulus SG can be realized by concentration methods

Обсуждаются особенности системы аварийной защиты парогенератора (ПГ) и результаты расчетного анализа процессов при больших и малых течах воды в натрий для реакторной установки на быстрых нейтронах с ПГ большой мощности. Показано, что при малых течах использование в подсистеме контроля течи приборов контроля кислорода в натрии позволяет эффективно контролировать большую часть (>99%) теплообменной поверхности модуля ПГ. Отмечается, что гидродинамические эффекты при большой течи воды в натрий в ПГ большой мощности незначительны и их использование для своевременного контроля межконтурной неплотности неэффективно. Таким образом, наиболее эффективный контроль и малых и больших течей воды в натрий в крупномодульном ПГ может осуществляться концентрационными методами

Application of COREMELT-3D code at analysis of severe fast reactor accidents **S22**

Volkov, A.V.; Raskach, K.F.; Solomonova, N.V.

Ispol'zovanie koda COREMELT-3D pri analize tyazhelykh avariij v bystrom reaktore

p. 151-163

(RU)

19 figs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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FAST REACTORS; SODIUM; COOLANTS; C CODES; REACTOR SAFETY; REACTOR CORES; SAFETY ANALYSIS; REACTOR ACCIDENT SIMULATION

The code COREMELT for calculations of initial and transition stages of severe accident is considered. It is used to conduct connected calculations of nonstationary neutronic and thermohydraulic processes in sodium fast reactor core. The code has some versions depending on dimensions of solving problem and consists of thermohydraulic module COREMELT and neutronic module RADAR. Using the code COREMELT-3D connected calculations of core disassembly accidents of ULOF and UTOP type have been conducted for sodium fast reactors safety analysis. The main problem of code COREMELT-3D use is duration of calculation, speeding of the code is possible when calculating algorithms are parallelized

Рассмотрен код COREMELT для расчетов начальной и переходной стадий тяжелой аварии. Он применяется для проведения связанных расчетов нестационарных нейтронно-физических и теплогидравлических процессов в активной зоне быстрого натриевого реактора. Код имеет несколько версий в зависимости от размерности решаемой задачи и состоит из теплогидравлического модуля COREMELT и нейтронно-физического модуля RADAR. С помощью кода COREMELT-3D выполнялись связанные расчеты аварий типа ULOF и UTOP с разрушением активной зоны для анализа безопасности быстрых реакторов с натриевым теплоносителем. Основная проблема использования кода COREMELT-3D - это длительность расчета, увеличить быстродействие кода возможно, если распараллелить вычислительные алгоритмы

Simulation of dynamics at large steam leak into HLHC of advanced NPP **S22**

Sergeev, V.V.

Modelirovanie dinamiki pri bol'shoj techi para v TZhMT perspektivnoj YaEhU

p. 164-178

(RU)

1 ref., 18 figs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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318 p.

STEAM GENERATORS; LEAKS; LIQUID METALS; COOLANTS; HEAT TRANSFER; COMPUTERIZED SIMULATION; PRIMARY COOLANT CIRCUITS; HYDRODYNAMICS; COMPARATIVE EVALUATIONS

The results of calculational investigations of dynamics in intertubular space of big steam generator with heavy liquid metal coolant at large intercircuit leak due to heat-transfer tube break are given. It is shown that two-phase codes known in industry, including TRACE, ANSYS-FLYENT with space hydrodynamics describe rather representatively the processes at large leaks in steam generators with heavy liquid metal coolant

Представлены результаты расчетных исследований динамики в межтрубном пространстве крупного парогенератора с тяжелым жидкометаллическим теплоносителем при большой межконтурной течи, обусловленной разрывом одной теплопередающей трубки. Показано, что известные в отрасли двухфазные коды, включая TRACE, ANSYS-FLYENT с пространственной гидродинамикой, достаточно представительно описывают процессы при больших течах в парогенераторах с тяжелым жидкометаллическим теплоносителем

Getter purification of liquid metal systems with sodium coolant from oxygen **S36**

Kozlov, F.A.; Konovalov, M.A.; Sorokin, A.P.

Ochistka getterami zhidkometallicheskih sistem s natrievym teplonositelem ot kislороda
p. 179-187

(RU)

21 refs., 5 figs., 2 tabs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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

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318 p.

COOLANT CLEANUP SYSTEMS; FAST REACTORS; GETTERS; SODIUM; OXYGEN; IMPURITIES; REACTOR OPERATION; CONCENTRATION RATIO; FOILS; GRANULAR MATERIALS

Literature data in justification of getter use for sodium purification from oxygen in respect to develop cleanup systems (CS) in reactor tank of advanced NPP of BN type is analyzed. Possible modes of hot traps (HT) operation in standby mode and while reaching nominal parameters are suggested and analyzed. It is shown that efficiency of CS can be increased by using HT with getters both as foil and granules. It is pointed out that it is possible to use HT with zirconium for improving performance of CS, located in limited space, in conditions when oxygen is the main impurity. Possibility of realization of fast cleanup mode when coolant purification is realized together with transition from standby mode is shown

Проанализированы литературные данные по обоснованию использования геттеров для очистки натрия от кислорода применительно к созданию систем очистки (СО), расположенных в баке реактора перспективной АЭС типа БН. Предложены и проанализированы возможные режимы эксплуатации горячих ловушек (ГЛ) в стояночных режимах и режимах выхода на номинальные параметры. Показано, что эффективность СО может быть повышена при использовании ГЛ с геттером, как в виде фольги, так и в гранулированном виде. Отмечается, что для повышения производительности СО, расположенных в ограниченном объеме, в условиях, когда основной примесью является кислород, возможно использование ГЛ с цирконием. Показана возможность реализации режима скоростной очистки, при которой производится очистка теплоносителя с одновременным переходом из стояночного режима

Sorption of radionuclides from Pb-Bi melt. Report 1 **S37**

Konovalov, Eh.E.; Il'icheva, N.S.; Trifonova, O.E.

Sorbtsiya radionuklidov iz rasplava Pb-Bi. Soobshchenie 1
p. 188-196

(RU)

7 refs., 10 figs., 1 tab.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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

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RADIOISOTOPES; RUTHENIUM 106; ANTIMONY 125; CESIUM 137; CESIUM 134; COOLANTS; SORPTION; OXIDES; DEPOSITS; EFFICIENCY; LEAD ALLOYS; BISMUTH ALLOYS; LIQUID METALS; FAST REACTORS; TEMPERATURE DEPENDENCE; TEMPERATURE RANGE 0400-1000 K; RADIOMETRIC ANALYSIS; CONTROL EQUIPMENT

Results of laboratory investigations of sorption and interfacial distribution of ^{54}Mn , ^{59}Fe , ^{60}Co , ^{106}Ru , ^{125}Sb , ^{137}Cs , ^{144}Ce , ^{154}Eu , ^{155}Eu and ^{235}U , ^{238}U radionuclides in the system Pb-Bi melt - steel surface are analyzed. It is shown that ^{106}Ru and ^{125}Sb are concentrated in Pb-Bi melt and other radionuclides with higher oxygen affinity are sorbed on oxide deposits on structural materials. Temperature dependences of sorption efficiency of radionuclides are studied. It is shown that there is sharp increase of this value for all radionuclides near the temperature range 350-400 deg C. Recommendations are given on the use of ^{106}Ru and ^{125}Sb as a reference for fuel element rupture detection system with radiometric monitoring of coolant melt samples and ^{137}Cs , ^{134}Cs , ^{134}mCs with radiometric monitoring of sorbing samples

Проведен анализ результатов лабораторных исследований сорбции и межфазового распределения радионуклидов ^{54}Mn , ^{59}Fe , ^{60}Co , ^{106}Ru , ^{125}Sb , ^{137}Cs , ^{144}Ce , ^{154}Eu , ^{155}Eu и ^{235}U , ^{238}U в системах расплав Pb-Bi - поверхность стали. Показано, что ^{106}Ru и ^{125}Sb концентрируются в расплаве Pb-Bi, а остальные радионуклиды с более высоким сродством к кислороду сорбируются оксидными отложениями на конструкционных материалах. Исследованы зависимости эффективности сорбции радионуклидов от температуры, показано, что для всех радионуклидов имеет место резкое увеличение этой величины в области температур 350-400 град С. Даны рекомендации об использовании в качестве реперов в системе контроля герметичности оболочек твэлов ^{106}Ru и ^{125}Sb с радиометрическим контролем проб расплава теплоносителей и ^{137}Cs , ^{134}Cs , ^{134}mCs с радиометрическим контролем сорбирующих образцов

Sorption of radionuclides from Pb-Bi melt. Report 2

S36

Konovalov, Eh.E.; Il'icheva, N.S.; Trifonova, O.E.

Sorbtsiya radionuklidov iz rasplava Pb-Bi. Soobshchenie 2

p. 197-202

(RU)

10 figs., 1 tab.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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

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318 p.

MANGANESE 54; IRON 59; COBALT 60; COOLANTS; LIQUID METALS; LEAD ALLOYS; BISMUTH ALLOYS; SORPTION; DISTRIBUTION FUNCTIONS; CHROMIUM-NICKEL STEELS; POROUS MATERIALS; ALUMINIUM OXIDES; ZEOLITES; TEMPERATURE RANGE 0400-1000 K; TEMPERATURE DEPENDENCE

Results of sorption study of radionuclides ^{54}Mn , ^{59}Fe , ^{60}Co from Pb-Bi melt by porous materials (alumino gel, zeolite, glass fabric and porous steel FNS) are considered. Using sorption

of ^{54}Mn as an example, it is shown that alumino gel A-1100 and zeolite NaA have the largest sorption activity. Specific activity of ^{54}Mn on these sorbents exceeds 100 times the equilibrium specific activity of ^{54}Mn in Pb-Bi melt. Sorption activity of chromium-nickel steels with various porosity is practically the same. Steel and porous steels have the similar sorption curves of ^{54}Mn , ^{59}Fe with maximum near temperature range 350-400 deg C. Sorption curves of ^{59}Fe on glass fabric have maximum at temperature near 380 deg C. Sorption curves of ^{60}Co on steel and porous steel are similar and have maximum at temperature of 580 deg C

Рассмотрены результаты исследований сорбции радионуклидов (^{54}Mn , ^{59}Fe , ^{60}Co) из расплава Pb-Bi пористыми материалами: алюмогелем, цеолитом, стеклотканью и пористой сталью ФНС. На примере сорбции ^{54}Mn показано, что алюмогель А-1100 и цеолит NaA обладают наибольшей сорбционной активностью. Удельная активность ^{54}Mn на этих сорбентах в 100 раз превышает равновесную удельную активность ^{54}Mn в расплаве Pb-Bi. Сорбционная активность хромоникелевых сталей различной пористости практически одинакова. Сталь и пористые стали образуют однотипные сорбционные кривые ^{54}Mn , ^{59}Fe с максимумами в диапазоне температур 350-400 град С. Сорбционные кривые ^{59}Fe на стеклоткани образуют максимумы при температуре около 380 град С. Сорбционные кривые ^{60}Co на стали и пористой стали однотипны и образуют максимумы при температуре 580 град С

Experiments with lead and lithium alloys

S37

Zasorin, I.I.; Loginov, N.I.; Mikheev, A.S.; Morozov, V.A.; Solomatin, A.E.

Ehksperimenty so splavami svintsa i litiya

p. 203-207

(RU)

5 refs., 5 figs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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

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318 p.

LEAD ALLOYS; LITHIUM ALLOYS; CHEMICAL PREPARATION; PHASE DIAGRAMS; CONCENTRATION RATIO; ARGON; IMPURITIES; ELECTRON MICROSCOPY; CHEMICAL COMPOSITION; SURFACES; EUTECTICS

The method of preparation of small amounts of eutectic lead-lithium alloys with ordered composition is developed. It consists in injection of calculating portion of molten lithium through thin holes into molten lead and further bubbling of pure argon. It is shown experimentally that preparation of Pb-Li eutectic of different compositions (17 or 15.7 at.% Li) is possible. It is pointed out that eutectic range of (16#+-#0,5) at.% Li is the most close to reality. The main reason of its displacement is insufficient initial purity of alloy components, work

surfaces and gas cavities with respect to oxygen. The alloy Pb-15,7Li obtained by described method not only corresponds to eutectic point more precisely but has more homogeneous composition by ingot volume and also contains essentially less impurities of other metal oxides

Разработан способ приготовления небольших количеств эвтектических сплавов свинца с литием заданного состава путем впрыска расчетной порции расплавленного лития через тонкие отверстия в расплавленный свинец с последующим барботированием чистого аргона. Опытным путем показана возможность получения Pb-Li эвтектики различных композиций (17 или 15,7 ат.% Li). Отмечается, что наиболее близкой к реальности является эвтектическая область (16#+-#0,5) ат.% Li. Основной причиной ее смещения является недостаточная исходная чистота компонентов сплава, рабочих поверхностей и газовых полостей по кислороду. Полученный описанным методом сплав Pb-15,7Li не только более точно соответствует эвтектической точке, но и имеет более гомогенный состав по объему слитка, а также содержит существенно меньше примесей оксидов других металлов

Results of calculational investigations of the method of solid-phase alkali metal oxidation by copper smeltery slag

S37

Kanukhina, S.V.; Kononyuk, M.Kh.; Butov, K.A.; Smykov, V.B.

Rezultaty raschetnykh issledovaniy metoda tverdogaznogo okisleniya shchelochnykh metallov shlakom medeplavil'nogo proizvodstva

p. 208-215

(RU)

10 refs., 9 figs., 3 tabs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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

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COOLANTS; SODIUM; RADIOACTIVE WASTES; SLAGS; COPPER COMPOUNDS; OXIDATION; CHEMICAL COMPOSITION; CHEMICAL REACTION KINETICS; GRANULAR MATERIALS; THERMODYNAMIC PROPERTIES; DIFFUSION; DECOMMISSIONING; RESEARCH REACTORS

The results of calculational investigations of experiment-based method of solid-phase oxidation of alkali metals are given. Calculational and theoretical justification is carried out relating to the mixing procedure of alkali metal with oxidizer (granulated copper smeltery slag) by alkali metal injection through a downpipe under slag layer into reaction vessel. For decommissioning process of research reactor BR-10 in reactor building a pilot plant is built. It serves for reprocessing accumulated spent liquid alkali metal coolants. The facility provides for conditioning up to 60 l of coolants, radioactive wastes among them, using experiment- and theory-based technology of solid-phase oxidation

Приведены результаты расчетных исследований экспериментально обоснованного метода твердофазного окисления щелочных металлов. Расчетно-теоретическое обоснование проводилось применительно к способу смешения щелочного металла с окислителем (гранулированный шлак медеплавильного производства) закачиванием щелочного металла по опускной трубе под слой шлака в реакционную емкость. Для обеспечения вывода из эксплуатации исследовательского реактора БР-10 в здании реактора создана опытно-промышленная установка, предназначенная для переработки накопленных отработавших щелочных жидкометаллических теплоносителей. Установка предусматривает кондиционирование до 60 л теплоносителей, в том числе и радиоактивные отходы, с использованием экспериментально и теоретически обоснованной технологии твердофазного окисления

Developments of heat pipes for new industrial technologies

S42

Aksenov, Yu.V.; Loginov, N.I.; Mikheev, A.S.

Razrabotki teplovykh trub dlya novykh promyshlennykh tekhnologij

p. 216-223

(RU)

10 refs., 7 figs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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

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HEAT PIPES; COOLANTS; LIQUID METALS; CAPILLARY FLOW; MASS TRANSFER; HEAT TRANSFER; NUCLEAR INDUSTRY; CHEMICAL INDUSTRY

Short historical review of investigations and developments of heat pipes in the Institute for Physics and Power Engineering after A.I. Lejpunskij is presented. The first calculational and experimental investigations began in 1967. In this period physical and technological basics are developed. The institute is the leader in the field of liquid metal heat pipe technologies. Practical mastering of temperature range from cryogenic up to 1500 deg C permitted to begin production of experimental and demonstration models of heat pipes as well as their short-run production for various branches of industry

Приведен краткий исторический обзор исследований и разработок Физико-энергетического института им. А.И. Лейпунского по тепловым трубам. Первые расчетные и экспериментальные исследования начались в 1967 г. За это время созданы физические и технологические основы тепловых труб. Институт является лидером в области технологий тепловых труб с жидкометаллическими теплоносителями. Практическое освоение диапазона температур от криогенных до 1500 град С позволило наладить изготовление экспериментальных и опытных образцов тепловых труб, а также их мелкосерийное производство для различных отраслей промышленности

Calculational and experimental investigations in justification of fire safety. Origin positions of fire (sodium) safety system of power plant unit

S22

Vinogradov, A.V.; Bagdasarov, Yu.E.; Kamaev, A.A.; Poplavskij, V.M.; Drobyshev, A.V.; Kryuchkov, E.A.; Kochetkov, L.N.; Pakhomov, I.A.

Raschetno-eksperimental'nye issledovaniya v obosnovanie pozharnoj bezopasnosti. Osnovnye polozheniya obespecheniya pozharnoj (natrievoj) bezopasnosti ehnergloboka

p. 224-243

(RU)

12 refs., 4 figs., 4 tabs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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

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SODIUM; COOLANTS; LEAKS; REACTOR SAFETY; FIRE PREVENTION; REACTOR PROTECTION SYSTEMS; THERMAL INSULATION; FIRE DETECTORS; LEAK DETECTORS; FAST REACTORS

The principles of ensuring the fire safety (FS) of the units with fast reactors and conceptual design of FS system of high energy BN unit are considered. The results of calculational and experimental investigations in justification of FS system efficiency in the rooms of high energy reactor unit, preventing means of sodium leaks of primary circuit and advanced sodium leak detection systems are presented. The problem of ensuring FS of BN type reactors at sodium jet efflux and dropwise fire is under consideration. The results of experimental studies on sodium blowdown through defects in equipment or pipeline with heat insulation and lining are given. Possibility of safe localization of sodium jet efflux and dropwise fire in these conditions is shown

Рассмотрены принципы обеспечения пожарной безопасности (ПБ) энергоблоков с реакторами на быстрых нейтронах и концепция построения системы ПБ энергоблока БН большой мощности. Представлены результаты расчетно-экспериментальных исследований в обоснование эффективности системы обеспечения ПБ в помещениях реакторной установки большой мощности, средств предотвращения протечек натрия первого контура и перспективных систем обнаружения течей натрия. Рассмотрен вопрос обеспечения ПБ реакторов типа БН при струйном истечении и капельном горении натрия. Приведены результаты экспериментальных исследований по истечению натрия через дефекты в оборудовании или трубопроводах при наличии на них теплоизоляции и облицовки. Показана возможность безопасной локализации струйного истечения и капельного горения натрия в этих условиях

Investigation of thermohydraulic parameter variations in operating conditions of Bilibino NPP CPS cooling circuit

S21

Baranaev, Yu.D.; Koz'menkova, V.V.; Parafilo, L.M.

Issledovanie izmenenij teplogidravlicheskich parametrov v ehkspluatatsionnykh rezhimakh kontura okhlazhdeniya SUZ Bilibinskoj AEhS

p. 244-251

(RU)

3 refs., 6 figs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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BILIBIN REACTOR; COOLING SYSTEMS; REACTOR CONTROL SYSTEMS; REACTOR CHANNELS; CORROSION; MOISTURE; THERMAL HYDRAULICS; REACTOR OPERATION

In consequence of activities on uncovering the reasons for through faults formation in cooling tubes of reactor control and protection system (CPS) channels of Bilibino-2 reactor the conclusion is made that corrosion failure development takes place against the backdrop of periodic increase of total moisture in reactor space at transient and standby modes at top of cooling tubes of CPS channels. Formation of corrosion defects in cooling tubes of four CPS channels of unit 2 in 2011-2012 is specific factor for this plant unit and do not effect on operation of other plant units. It is pointed out that ingress of moisture into gas system of the reactor is the critical factor providing integrity of structure elements of EhPG-6 reactor core cooling system. This fact agrees nicely with the results obtained during operation AM reactor of the First NPP

В результате работ по выявлению причин образования сквозных дефектов охлаждающих трубок каналов системы управления и защиты (СУЗ) энергоблока 2 Билибинской АЭС сделан вывод, что развитие коррозионных повреждений происходит на фоне периодического повышения общей влажности в реакторном пространстве на переходных и стояночном режимах в верхних частях охлаждающих трубок каналов СУЗ. Образование коррозионных дефектов в охлаждающих трубках четырех каналов СУЗ на блоке 2 в 2011-2012 гг. является фактором, специфичным для конкретного блока АЭС, и не влияет на эксплуатацию остальных блоков. Отмечается, что критическим фактором обеспечения целостности конструкционных элементов системы охлаждения активной зоны реактора ЭГП-6 является попадание влаги в газовую систему реактора. Это согласуется с результатами, полученными при эксплуатации реактора АМ Первой АЭС

Experimental and calculational investigations of heat transfer in reactor core fuel assembly in justification of efficiency and safety of water cooled reactors of new generation

S21

Bogoslovskaya, G.P.; Kirillov, P.L.; Loshchinin, V.M.; Pomet'ko, R.S.; Selivanov, Yu.F.; Smirnov, A.M.; Sorokin, A.P.; Trufanov, A.A.

Ehksperimental'nye i raschetnye issledovaniya teploobmena v TVS aktivnoj zony v obosnovanie ehffektivnosti i bezopasnosti vodookhlazhdaemykh reaktorov novogo pokoleniya

p. 252-263

(RU)

10 refs., 2 figs., 4 tabs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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WWER TYPE REACTORS; SUPERCRITICAL STATE; WATER; HEAT TRANSFER; FUEL ELEMENT CLUSTERS; MATHEMATICAL MODELS; EFFICIENCY; WIRES

For preliminary assessment of efficiency of fitting WWER fuel assembly with intensifier grids the calculation procedure of critical heat flux value is suggested, it takes into account design features of intensifier grids and their relative position. Possibilities of the procedure are demonstrated with specific references. The results of analysis of theoretical and experimental investigations of heat transfer in fuel element clusters during supercritical water flow are given. It is shown that the presence of winding wire on fuel elements enhances heat transfer. The data obtained are used in thermohydraulic calculation of fuel element cluster of experimental WWER-SKD-30 reactor core

Для предварительной оценки эффективности оснащения тепловыделяющей сборки ВВЭР решетками-интенсификаторами предложена методика расчета величины критического теплового потока, учитывающая особенности конструкции решеток-интенсификаторов и их взаимное расположение. Возможности методики продемонстрированы на конкретных примерах. Представлены результаты анализа теоретических и экспериментальных исследований теплообмена в пучках твэлов при течении воды сверхкритических параметров. Показано, что наличие проволочной навивки на твэлах способствует интенсификации теплообмена. Полученные данные использованы при теплогидравлическом расчете тепловыделяющей сборки активной зоны экспериментального реактора ВВЭР-СКД-30

Experimental investigations of heat transfer crisis on the model of fuel assembly of WWER with mixing grids under MCP trip

S42

Pomet'ko, R.S.; Smirnov, A.M.; Vasil'chenko, I.N.; V'yalitsyn, V.V.; Galkin, I.Yu.; Volkov, S.E.
Ehksperimental'nye issledovaniya krizisa teploobmena na modeli TVS VVEhR s
peremeshivayushchimi reshetkami pri otklyuchenii GTsN
p. 264-270
(RU)

1 ref., 6 figs., 3 tabs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

Predpriyatie Goskorporatsii Rosatom AO Gosudarstvennyj Nauchnyj Tsentr Rossijskoj
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FUEL ELEMENT CLUSTERS; SPACERS; HEAT TRANSFER; BENCHMARKS;
EFFICIENCY; WWER TYPE REACTORS; COOLANTS; PUMPS; REACTOR COOLING
SYSTEMS

Experimental investigations of boiling crisis in conditions of total trip of all main circulation pumps are carried out. It is shown that in transients under loss of flow critical heat flux is 4% higher than in steady conditions under the same parameters (flow rate, pressure, input temperature). Thus, correlation for steady conditions is conservative at calculation of critical heat flux during main circulation pumps trip

Проведены экспериментальные исследования кризиса теплообмена в условиях полного отключения всех работающих главных циркуляционных насосов. Показано, что в нестационарных режимах при снижении расхода критические тепловые потоки на 4% выше, нежели в стационарных режимах при тех же параметрах (расходе, давлении, температуре на входе). Таким образом, корреляция для стационарных режимов является консервативной при расчете запасов до кризиса при отключении главных циркуляционных насосов

Calculational and experimental investigations in the field of thermal hydraulics of supercritical water-cooled reactor

S21

Kartashov, K.V.; Sorokin, A.P.; Kirillov, P.L.; Bogoslovskaya, G.P.

Raschetno-ehksperimental'nye issledovaniya v oblasti teplogidravliki YaEhU s vodyanym
teplonositelem pri sverkhkriticheskom davlenii

p. 271-281

(RU)

15 refs., 10 figs., 2 tabs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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WWER TYPE REACTORS; FUEL ASSEMBLIES; HEAT TRANSFER; WATER; COOLANTS; SUPERCRITICAL STATE; BENCHMARKS; BENCH-SCALE EXPERIMENTS

The experimental facilities of Institute for Physics and Power Engineering after A.I. Lejpunskij for heat transfer investigation under coolant supercritical pressures are considered, they are experimental water thermohydraulic bench SVD-2 and experimental freon thermohydraulic bench STF. A significant complex of thermophysical investigations in justification of fuel element assembly (FEA) designs for operating and advanced WWER type units have been carried out on the bench SVD-2. The bench STF has been used for investigations of heat transfer and hydraulic characteristics of FEA for WWER of various types using FEA simulators, for tests of assembly ultimate capacity determination and also for investigation of heat transfer under supercritical pressures

Рассмотрена экспериментальная база Физико-энергетического института им. А.И. Лейпунского для исследований теплообмена при сверхкритических давлениях теплоносителей: экспериментальный водяной теплогидравлический стенд СВД-2 и экспериментальный фреоновый теплогидравлический стенд СТФ. На стенде СВД-2 выполнен значительный комплекс теплофизических исследований в обоснование конструкции тепловыделяющих сборок (ТВС) как для действующих, так и для перспективных блоков типа ВВЭР. На стенде СТФ проводились исследования на моделях ТВС теплообменных и гидравлических характеристик ТВС водо-водяных реакторов различных типов, испытания для определения предельной мощности сборок, а также исследования теплообмена при сверхкритических давлениях

Formation regularities and determination techniques of hydraulic nonuniformities on the outlet from axisymmetrical header systems of heat exchangers and nuclear reactor facilities

S42

Gabrianovich, B.N.; Del'nov, V.N.

Zakonomernosti formirovaniya i metodika opredeleniya gidravlicheskich neravnomernostej na vykhode iz osesimmetrichnykh kollektornykh sistem teploobmennikov i reaktorov YaEhU p. 282-299

(RU)

35 refs., 8 figs.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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318 p.

WWER TYPE REACTORS; LMFBR TYPE REACTORS; HYDRAULICS; FLUID FLOW; HEAT EXCHANGERS; HYDRODYNAMICS; MATHEMATICAL MODELS; CONFIGURATION; FLOW RATE; CORRELATIONS

In the result of theoretical and experimental investigations of hydrodynamics of flow paths of cylindrical and plane axisymmetrical header systems (Hs) with different coolant inlet and outlet previously unknown common pattern of forming hydraulic nonuniformities in the outlet of Hs of intermediate heat exchanger of BN reactor secondary circuit and WWER reactor Hs has been determined. It implies that position of coolant maximum rate as it leaves the grid coincides with position of maximum rate in jet core falling on it, and maximum average coolant rate in grid meshes is proportional to average coolant rate in jet falling on it. The results obtained allow to ensure hydrodynamic optimization of flow paths of axisymmetrical Hs of reactors and nuclear reactor facility heat exchangers without numerous costly experiments

В результате теоретического и экспериментального исследования гидродинамики проточных частей осесимметричных коллекторных систем (КС) цилиндрической и плоской форм с различными вариантами подвода и отвода теплоносителя установлена неизвестная ранее общая закономерность формирования гидравлических неравномерностей на выходе из КС промежуточного теплообменника второго контура реакторной установки типа БН и КС реакторной установки типа ВВЭР. Она заключается в том, что положение максимальной скорости теплоносителя на выходе из решетки совпадает с положением максимальной скорости в ядре падающей на нее струи, а максимальная средняя скорость теплоносителя в отверстиях решетки пропорциональна средней скорости теплоносителя в падающей на нее струе. Полученные результаты позволяют обеспечить гидродинамическую оптимизацию проточных частей осесимметричных КС реакторов и теплообменников ЯЭУ без проведения многочисленных дорогостоящих экспериментов

Experimental investigation of the processes of steam-gas mixture condensation on the subcooled liquid jet to ensure long-term operation of passive safety systems of NPPs with WWER

S22

Morozov, A.V.; Kalyakin, D.S.; Ragulin, S.V.; Sakhipgareev, A.R.; Soshkina, A.S.; Shlepkin, A.S.
Eksperimental'noe issledovanie protsessov kondensatsii parogazovoj smesi na strue nedogretoj zhidkosti dlya obespecheniya dlitelnoj raboty passivnykh sistem bezopasnosti AEhS s VVEhR
p. 300-308

(RU)

7 refs., 6 figs., 1 tab.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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

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REACTOR SAFETY EXPERIMENTS; WWER TYPE REACTORS; STEAM GENERATORS; REACTOR COOLING SYSTEMS; COOLANTS; FLUID FLOW; SUBCOOLING; VAPOR CONDENSATION; NITROGEN; CONCENTRATION RATIO; MATHEMATICAL MODELS

Using experimental facility Condensation on jets, developed in IPPE, investigations of the processes taking place during jetting of subcooled liquid into second-stage accumulator tank (AT-2) model volume in the presence of noncondensable gases are carried out. Two experiments are realized, each of them includes four modes with different nitrogen concentration in AT-2 model. It is shown that increase of noncondensable gas concentration in AT-2 model up to 30% leads to decrease of steam condensation intensity on subcooled liquid by 22-30%. The results of experimental investigations may be used for calculational simulation of emergency processes in WWER facility in the course of passive safety system complex operation with account of steam-gas mixture blowing off from steam generator while laminar water jet is supplied into steam volume of AT-2

На экспериментальной установке Конденсация в струях, созданной в ФЭИ, проведены исследования процессов, имеющих место при подаче струи недогретой жидкости в объем модели гидроемкости второй ступени (ГЕ-2) в присутствии неконденсирующихся газов. Было выполнено два эксперимента, каждый из которых включал в себя по четыре режима, которые отличались концентрациями азота в модели ГЕ-2. Показано, что увеличение концентрации неконденсирующегося газа в модели ГЕ-2 до 30% приводит к снижению интенсивности конденсации пара на струе недогретой жидкости на 22-30%. Результаты экспериментальных исследований можно использовать для расчетного моделирования аварийных процессов в реакторной установке ВВЭР во время работы комплекса систем пассивной безопасности с учетом сдувки парогазовой смеси из парогенератора при подаче ламинарной струи воды в паровой объем ГЕ-2

Added mass and effective density of dispersed media

S42

Vereshchagina, T.N.; Fedotovskij, V.S.

Prisoedinennaya massa i ehffektivnaya plotnost' dispersnykh sred

p. 309-316

(RU)

36 refs., 3 figs., 1 tab.

Trufanov, A.A.; Sorokin, A.P.; Vereshchagina, T.N. (eds.)

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DISPERSIONS; MASS; DENSITY; BUBBLES; FLUID FLOW; MATHEMATICAL MODELS; COMPARATIVE EVALUATIONS; TUBES; CONCENTRATION RATIO

The review of dependences of added mass (AM) coefficients of liquid on concentration of inclusions in dispersion medium available in literature are given. It is shown that in the processes taking place under the action of surface forces effecting dispersion medium (pressure wave propagation, equipment vibrations), AM of liquid grows with the increase of concentration of inclusions. When dispersion medium moves under the action of body forces AM of liquid decreases with the increase of concentration of inclusions. The examples of calculations of effective density of dispersion media with the use of considered concentration dependences of AM coefficient are given. The comparison with experimental results is conducted

Приведен обзор имеющихся в литературе зависимостей коэффициента присоединенной массы (ПМ) жидкости от концентрации включений в дисперсных средах. Показано, что в процессах, происходящих под воздействием поверхностных сил, действующих на дисперсную среду (распространение волн давления, вибрации оборудования), ПМ жидкости растет с ростом концентрации включений. При движении дисперсной среды под действием массовых сил ПМ жидкости уменьшается с ростом концентрации включений. Приведены примеры вычисления эффективной плотности дисперсных сред с использованием рассмотренных зависимостей коэффициента ПМ от концентрации. Проведено сравнение с экспериментальными результатами

Scientific-technical conference Thermal physics of new generation reactors (Thermal physics-2015). Book of abstracts

S22;S42

Trufanov, A.A.; Sorokin, A.P. (eds.)

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

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Teplofizika reaktorov novogo pokoleniya (Teplofizika-2015)

Nauchno-tehnicheskaya konferentsiya Teplofizika reaktorov novogo pokoleniya (Teplofizika-2015). Tezisy dokladov

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274 p.

(RU)

LEADING ABSTRACT; MEETINGS; WWER TYPE REACTORS; LIQUID METAL COOLED REACTORS; COOLANTS; LIQUID METALS; WATER; SUPERCRITICAL STATE; THERMAL HYDRAULICS; THERMODYNAMICS; STEAM GENERATORS; HEAT TRANSFER; COOLANT CLEANUP SYSTEMS

In the book of abstracts there are the materials connected with justification of new design solutions directed on increasing efficiency and safety of projects of both water-cooled and new generation fast reactors with sodium and lead coolants. Wide range of thermophysical problems

in the field of hydrodynamics and heat transfer in flow path and equipment components of reactor facilities, experimental and numerical simulation of accident processes evolution are under consideration. There are the materials on the questions of thermophysical properties of coolants and physicochemical processes in the systems liquid metal - inert gas - structural materials, thermophysical calculational codes development and verification, nuclear power facility thermophysical calculations. Great attention is paid to development of methods and means of control and purification of liquid metal coolants from impurities. The problems of innovation supercritical water-cooled power nuclear reactors are discussed as well as the suggestions on liquid metal coolants in different branches of industry

В сборник включены материалы, связанные с обоснованием новых конструкторских решений, направленных на повышение эффективности и безопасности проектов как водоохлаждаемых, так и быстрых реакторов нового поколения с натриевым и свинцовым теплоносителями. Рассматривается широкий круг теплофизических проблем в области гидродинамики и теплообмена в проточной части и узлах оборудования реакторных установок, экспериментального и численного моделирования развития аварийных процессов. Представлены материалы по вопросам теплофизических свойств теплоносителей и физико-химических процессов в системах жидкий металл - конструкционные материалы - инертный газ, разработки и верификации теплофизических расчетных кодов, теплофизических расчетов ЯЭУ. Большое внимание уделяется разработке методов и средств контроля и очистки жидкометаллических теплоносителей от примесей. Обсуждаются проблемы создания инновационных водо-водяных энергетических ядерных реакторов со сверхкритическими параметрами теплоносителя, а также предложения по использованию жидкометаллических теплоносителей в различных отраслях промышленности

Research and development - realization status and key forks

S11;S12;S42

Rachkov, V.I. (ChU ITTsP PRORYV, Moscow (RU))

Thermal physics of new generation reactors (Thermal physics-2015)

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NIOKR - sostoyanie realizatsii i klyuchevye razvilki

p. 13-14

(RU)

Trufanov, A.A.; Sorokin, A.P. (eds.)

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274 p.

MIXED OXIDE FUELS; MIXED NITRIDE FUELS; FAST REACTORS; COOLANTS;
LEAD; RADIOACTIVE WASTES; RADIOACTIVE WASTE PROCESSING; ACTINIDES;
TRANSMUTATION; COMPARATIVE EVALUATIONS

Investigation results in the field of thermal physics of new generation reactors

S21

Sorokin, A.P.; Poplavskij, V.M.; Kozlov, F.A.; Orlov, Yu.I.; Trufanov, A.A.; Kamaev, A.A.; Chernonog, V.L. (AO GNTs RF - Fiziko-Ehnergeticheskij Inst. imeni A.I. Lejpunskogo, Obninsk (RU))

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Rezultaty issledovanij v oblasti teplofiziki yadernykh reaktorov novogo pokoleniya

p. 15-19

(RU)

2 refs., 1 fig.

Trufanov, A.A.; Sorokin, A.P. (eds.)

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Trufanov, A.A.; Sorokin, A.P. (eds.)

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Trufanov, A.A.; Sorokin, A.P. (eds.)

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4 refs.

Trufanov, A.A.; Sorokin, A.P. (eds.)

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Trufanov, A.A.; Sorokin, A.P. (eds.)

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4 refs.

Trufanov, A.A.; Sorokin, A.P. (eds.)

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Trufanov, A.A.; Sorokin, A.P. (eds.)

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Trufanov, A.A.; Sorokin, A.P. (eds.)

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3 refs.

Trufanov, A.A.; Sorokin, A.P. (eds.)

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3 refs.

Trufanov, A.A.; Sorokin, A.P. (eds.)

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Trufanov, A.A.; Sorokin, A.P. (eds.)

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Trufanov, A.A.; Sorokin, A.P. (eds.)

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4 refs.

Trufanov, A.A.; Sorokin, A.P. (eds.)

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(RU)

6 refs.

Trufanov, A.A.; Sorokin, A.P. (eds.)

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

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Trufanov, A.A.; Sorokin, A.P. (eds.)

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

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Trufanov, A.A.; Sorokin, A.P. (eds.)

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

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Trufanov, A.A.; Sorokin, A.P. (eds.)

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(RU)

3 refs., 1 fig.

Trufanov, A.A.; Sorokin, A.P. (eds.)

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Trufanov, A.A.; Sorokin, A.P. (eds.)

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1 ref.

Trufanov, A.A.; Sorokin, A.P. (eds.)

Predpriyatie Goskorporatsii Rosatom AO Gosudarstvennyj Nauchnyj Tsentr Rossijskoj
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(RU)

3 refs., 1 fig.

Trufanov, A.A.; Sorokin, A.P. (eds.)

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

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4 refs.

Trufanov, A.A.; Sorokin, A.P. (eds.)

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

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1 ref., 1 fig.

Trufanov, A.A.; Sorokin, A.P. (eds.)

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

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Trufanov, A.A.; Sorokin, A.P. (eds.)

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Trufanov, A.A.; Sorokin, A.P. (eds.)

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