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in recent years semigroups and languages have seen huge developments and found their motivation in other fields of mathematics as well as in computer science this book is a collection of original contributions in those fields the proceedings have been selected for coverage in oco index to scientific technical proceedings istp isi proceedings oco index to scientific technical proceedings istp cdrom version isi proceedings oco cc proceedings oco engineering physical sciences this volume presents first editions of a variety of cuneiform tablets from the old babylonian period belonging to the collection of the late shlomo moussaieff it makes available for the first time three texts representing varying levels of mesopotamian scribal education the first is what the authors argue is the most complete copy of the first fifty lines of the standard version of the sumerian epic gilgameš and the bull of heaven the second is a hitherto unpublished bilingual sumerian akkadian lexical list of unknown provenance similar to the proto aa syllabary each of the 314 entries preserved on this tablet provides a pronunciation gloss a sumerian logogram and an akkadian translation a unique feature of this list is that the signs are arranged on the basis of graphic concatenation each sign contains one of the graphic components of the preceding sign it also yields a great number of hitherto unknown synonymous akkadian translations to the sumerian logograms the final chapter contains an edition of two groups of lenticular school tablets containing thirty three elementary level scribal exercises with this volume jacob klein and yitschak sefati preserve and disseminate important artifacts that advance the study of sumerian literature mesopotamian lexicography and ancient near eastern scribal education in recent years semigroups and languages have seen huge developments and found their motivation in other fields of mathematics as well as in computer science this book is a collection of original contributions in those fields the proceedings have been selected for coverage in index to scientific technical proceedings istp isi proceedings index to scientific technical proceedings istp cdrom version isi proceedings cc proceedings engineering physical sciences the following topics are discussed in this volume recent developments in operator theory coherent states and wavelet analysis geometric and topological methods in theoretical physics and quantum field theory and applications of these methods of mathematical physics to problems in atomic and molecular physics as well as the world of the elementary particles and their fundamental interactions two extensive sets of lecture notes on quantization techniques in general and quantum gauge theories and strings as an avenue towards quantum geometry are also included the volume should be of interest to anyone working in a field using the mathematical methods associated with any of these topics the continuation of global poverty is inextricably entwined with the fundamental philosophy of the market economy it is driven by the individual s neverending desire for profit leading to a critically imbalanced distribution of resources as an entrepreneurial initiative this book advocates a shift in the responsibility for relief of poverty away from the government to the private sector and in particular to corporate entities the concept of the residual is used as the cornerstone of business operations and wealth distribution corporate decision makers while making proprietary decisions for resources allocation must assume stewardship responsibility and be accountable not just to financial investors but to all contributors of the corporate entity this volume will interest researchers and others involved with high precision measurements and the development of mathematical tools for this purpose advances in metrology depend on improvements in scientific and technical knowledge the quality of instruments a better use of advanced mathematical tools and the development of new ones a tradition of close cooperation between metrologists and mathematicians while found elsewhere is lacking in italy this workshop wishes to start such a cooperation by providing a common meeting ground several industrial sectors particularly those of instrumentation and software are likely to benefit from this process since metrology has a high impact on the overall quality of industrial products and applied mathematics is becoming increasingly important in industrial processes this book discusses achievements in the last 20 years recent developments and future perspectives in nonlinear science both continuous and discrete systems classical and quantum are considered a textbook of workshop technology manufacturing processes to the students of degree and diploma of all the indian and foreign universities the object of this book is to present the subject matter in a most concise compact to the point and lucid manner while writing the book we have constantly kept in mind the various requirements of the students no effort has been spared to enrich the book with simple language and self explanatory diagrams every care has been taken not to make the book voluminous as the students have also to face other subjects of equal importance bonn workshop on combinatorial optimization this volume gathers the latest advances innovations and applications in the field of structural health monitoring shm and more broadly in the fields of smart materials and intelligent systems the volume covers highly diverse topics including signal processing smart sensors autonomous systems remote sensing and support uav platforms for shm internet of things industry 4 0 and shm for civil structures and infrastructures the contributions which are published after a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different specialists the contents of this volume reflect the outcomes of the activities of ewshm european workshop on structural health monitoring in 2020 this book published in two volumes embodies the proceedings of the 15th european workshop on advanced control and diagnosis acd 2019 held in bologna italy in november 2019 it features contributed and invited papers from academics and professionals specializing in an important aspect of control and automation the book discusses current theoretical research developments and open problems and illustrates practical applications and industrial priorities with a focus on both theory and applications it spans a wide variety of up to date topics in the field of systems and control including robust control adaptive control fault tolerant control control reconfiguration and model based diagnosis of linear nonlinear and hybrid systems as the subject coverage has expanded to include cyber physical production systems industrial internet of things and sustainability issues some contributions are of an interdisciplinary nature involving ict disciplines and environmental sciences this book is a valuable reference for both academics and professionals in the area of systems and control with a focus on advanced control automation fault diagnosis and condition monitoring in a relatively short time commutative algebra has grown in many directions over a period of nearly fifty years starting from the so called homological period till today the area has developed into a rich laboratory of methods structures and problem solving tools one could say a distinct modern trend of commutative algebra is a strong interaction with various aspects of combinatorics and computer algebra this has resulted in a new sense of measuring for old assumptions and a better understanding of old results at the same time invariant theory and algebraic geometry remain constituents of an everlasting classical source responsible for important themes that have been developed in commutative algebra such as deformation linkage algebraic tori and determinantal rings etc this volume of proceedings is well entrenched on the lines of development outlined above as such it aims to keep researchers and mathematicians well informed of the developments in the field the purpose of the berkeley workshop on monoids was to give expository talks by the most qualified experts in the emerging main areas of monoid and semigroup theory including applications to theoretical computer science this was supplemented with current research papers the topics covered in an accessible way for the mathematical and theoretical computer community were kernels and expansions in semigroup theory implicit operations inverse monoids varieties of semigroups and universal algebra linear semigroups and monoids of lie type monoids acting on tress synthesis theorem regular

semigroups and applications type ii conjecture application to theoretical computer science and decision problems quantum symmetry modelled through quantum group or its dual quantum algebra is a very active field of relevant physical and mathematical research stimulated often by physical intuition and with promising physical applications this volume gives some information on the progress of this field during the years after the quantum group workshop in clausthal 1989 quantum symmetry is connected with very different approaches and views the field is not yet coherent there are different notions of quantum groups and of quantum algebras through algebraic deformations of groups and algebras hence its development has various directions following more special mathematical and physical interests articles are presented covering a wide range of topics in the mathematical methods of quantum physics these include infinite dimensional analysis based on white noise operator algebra methods feynman path integrals quantum mechanics on non simply connected spaces recent results in supersymmetric theories stochastic and quantum dynamics yang baxter systems statistical physics thermo field dynamics and quantum field theory the essays are based on lectures contributed for the second jagna international workshop held in honour of prof hiroshi ezawa a distinguished physicist educator and former president of the physical society of japan this book covers new experimental and theoretical studies that focus on the modern developments of nuclear fission aiming at various applications in a wide range of fields and bringing together scientists working in different fields related to nuclear fission the following topics are dealt with radioactive beam facilities based on nuclear fission nuclear waste transmutations and the future accelerator driven system fission and spallation nuclear data and modeling experimental and theoretical advances in the study of nuclear fission fusion reactions and decay modes of superheavy nuclei stability against fission and many body systems superasymmetric and multicluster fission the proceedings have been selected for coverage in index to scientific technical proceedings istp isi proceedings index to scientific technical proceedings istp cdrom version isi proceedings cc proceedings engineering physical sciences contents quasifission of the dinuclear system g g adami et al variation of charge density in fusion reactions r a gherghescu et al fission investigations and evaluation activities at irmm f j hamsch et al traps for fission product ions at igisol s kopecky et al fission barriers in the quasi molecular shape path g royer et al dissipation in a wide range of mass asymmetries m mireia the alto project a 50 mev electron beam at ipn orsay o bajeat et al deformed open quantum systems a isar light heavy ion dissipative collisions at low energy a pop et al estimates of the α rates for deformed superheavy nuclei i silisteanu et al and other papers readership researchers in nuclear physics keywords nuclear fission radioactive beams accelerator driven systems superheavy nuclei decay modes pt i analytical methods on the ist for discrete nonlinear schrödinger systems and polarization shift for discrete vector solitons m j ablowitz b prinari a d trubatch soliton solutions of coupled nonlinear klein gordon equations t alagesan characteristic initial value problems for integrable hyperbolic reductions of einstein s equations g a alekseev discrete sine gordon equation m boiti und weitere integrable and non integrable equations with peakons a degasperis d d holm a n w hone solution of a free boundary problem for a nonlinear diffusion convection equation s de lillo m c salvatori g sanchini iterative construction of solutions for a nonisospectral problem in 2 1 dimensions p g estevez discrete breathers close to the anticontinuum limit existence and wave scattering s flach und weitere complex toda chain an integrable universal model for adiabatic n soliton interactions v s gerdjikov on the reductions and scattering data for the generalized zakharov shabat systems g g grahovski bilinear representation for the modified nonlinear schrödinger equations and their quantum potential deformations j h lee o k pashaev noncommutative burgers equations l martina o k pashaev on the quasi classical sumbol dressing method b konopelchenko a moro new solvable matrix integrals u n case a yu orlov integrable hydrodynamic chains m v pavlov kpil new results and open problems a k pogrebkov a workmate for kvd p c sabatier space time lattice for operator schrödinger equation a spire v v konotop l vazquez on isomonodromy deformations for the zs akns flows d wu pt ii symmetry properties hamiltonian methods and group theoretical methods new symmetry reductions for a lubrication model m s bruzón und weitere quantum solitons for quantum information and quantum computing r k bullough m wadati solving renormalization group equations by recursion relations a cafarella c corianò m guzzi a tri hamiltonian route to spectral curves l degiovanni g magnano construction of real forms of complexified hamiltonian dynamical systems v s gerdjikov und weitere integrable and super integrable systems in classical and quantum mechanics m giordano und weitere non commuting coordinates in vortex dynamics and in the hall effect related to exotic galilean symmetry p a horváthy structure of multi meron knot action l s isaev a p protogenov compatible nonlocal poisson brackets of hydrodynamic type and integrable reductions of the lamé equations o i mokhov pseudoanti hermiticity in qqm time reversal and kramers degeneracy g scolarici on the integrability of supersymmetric equations p tempesta r a leo g soliani this volume commemorates the 10th anniversary of the discovery of high temperature superconductors hts the historical framework and present status of hts are reviewed and the future of the field contemplated so that the hts science can be unraveled and the hts technology developed this book contains the works of about 200 members of the international hts community from universities government centers and laboratories major industries and small businesses it focuses on early and major new findings in the physics and mechanisms materials and applications of hts with a projection to the emerging and future areas in science and technology the workshop needs 91 brought together from all over the world scientists engaged in research on nonlinear systems either their underlying mathematical properties or their physical applications accordingly many talks were devoted to present methods of solution like spectral transform and to the investigation of structural geometrical and or algebraic properties of continuous and discrete nonlinear evolution equations peculiar nonlinear systems such as cellular automata were also discussed applications to various fields of physics namely quantum field theory fluid dynamics general relativity and plasma physics were considered the proceedings presents in a systematic way top searches jets gauge boson production precision tests of electroweak theory in s physics heavy flavours and exotics in addition contributions to the sessions news from the world short term future and long term future show the progress of ssc in usa of lhc at cern unk vlepp in ussr together with perspectives of hadron collider physics this volume represents a valuable collective contribution to the research and development of database systems it contains papers in a variety of topics such as data models distributed databases multimedia databases concurrency control hypermedia and document processing user interface query processing and database applications these are the proceedings of the 7th workshop on cryptographic hardware and embedded systems ches 2005 held in edinburgh scotland from august 29 to september 1 2005 this volume contains 18 thoroughly refereed and revised papers detailing recent advances in research on designing trading agents and mechanisms for agent mediated e commerce they were originally presented at the 11th international workshop on agent mediated electronic commerce amec 2009 collocated with aamas 2009 in budapest hungary or the 2009 workshop on trading agent design and analysis tada 2009 collocated with ijcai 2009 in pasadena ca usa the papers focus on topics such as individual agent behavior and agent interaction collective behavior mechanism design and computational aspects all in the context of e commerce applications like trading auctions or negotiations they combine approaches from different fields of mathematics computer science and economics such as artificial intelligence distributed systems operations research and game theory this book constitutes the joint refereed proceedings of the 6th international workshop on approximation algorithms for optimization problems approx 2003 and of the 7th international workshop on randomization and approximation techniques in computer science random 2003 held in princeton ny usa in august 2003 the 33 revised full papers presented were carefully reviewed and selected from 74 submissions among the issues addressed are design and analysis of randomized and approximation algorithms online algorithms complexity theory combinatorial structures error correcting codes pseudorandomness derandomization network algorithms random walks markov chains

probabilistic proof systems computational learning randomness in cryptography and various applications this volume contains the contributions of the participants of the sixth oslo silivri workshop on stochastic analysis held in geilo from july 29 to august 6 1996 there are two main lectures stochastic differential equations with memory by s e a mohammed backward sde s and viscosity solutions of second order semilinear pde s by e pardoux the main lectures are presented at the beginning of the volume there is also a review paper at the third place about the stochastic calculus of variations on lie groups the contributing papers vary from spdes to non kolmogorov type probabilistic models we would like to thank vista a research cooperation between norwegian academy of sciences and letters and den norske stats oljeselskap statoil cnrs centre national de la recherche scientifique the department of mathematics of the university of oslo the ecole nationale superieure des telecommunications for their financial support l decreasefond j gjerde b oksendal a s ustunel participants to the 6th workshop on stochastic analysis vestlia høyfjellshotell geilo norway july 28 august 4 1996 e mail abc gfm cii fc ui pt aureli alabert departament de matemàtiques laurent decreasefond universitat autonoma de barcelona ecole nationale superieure des telecom 08193 bellaterra munications catalonia spain departement reseaux e mail alabert mat uab es 46 rue barrault halvard arntzen 75634 paris cedex 13 dept of mathematics france university of oslo e mail decrease res enst fr box 1053 blindern laurent denis n 0316 oslo c m i

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data analysis methods in physical oceanography third edition is a practical reference to established and modern data analysis techniques in earth and ocean sciences its five major sections address data acquisition and recording data processing and presentation statistical methods and error handling analysis of spatial data fields and time series analysis methods the revised third edition updates the instrumentation used to collect and analyze physical oceanic data and adds new techniques including kalman filtering additionally the sections covering spectral wavelet and harmonic analysis techniques are completely revised since these techniques have attracted significant attention over the past decade as more accurate and efficient data gathering and analysis methods completely updated and revised to reflect new filtering techniques and major updating of the instrumentation used to collect and analyze data co authored by scientists from academe and industry both of whom have more than 30 years of experience in oceanographic research and field work significant revision of sections covering spectral wavelet and harmonic analysis techniques examples address typical data analysis problems yet provide the reader with formulaic recipes for working with their own data significant expansion to 350 figures illustrations diagrams and photos relativistic celestial mechanics investigating the motion celestial bodies under the influence of general relativity is a major tool of modern experimental gravitational physics with a wide range of prominent authors from the field this two volume series consists of reviews on a multitude of advanced topics in the area of relativistic celestial mechanics starting from more classical topics such as the regime of asymptotically flat spacetime light propagation and celestial ephemerides but also including its role in cosmology and alternative theories of gravity as well as modern experiments in this area this second volume of a two volume series covers applications of the theory as well as experimental verifications from tools to determine light travel times in curved space time to laser ranging between earth and moon and between satellites and impacts on the definition of time scales and clock comparison techniques a variety of effects is discussed on the occasion of his 80 th birthday these two volumes honor v a brumberg one of the pioneers in modern relativistic celestial mechanics contributions include j simon a fienga victor brumberg and the french school of analytical celestial mechanics t fukushima elliptic functions and elliptic integrals for celestial mechanics and dynamical astronomy p teyssandier new tools for determining the light travel time in static spherically symmetric spacetimes beyond the order g^2 j müller l biskupek f hofmann and e mai lunar laser ranging and relativity n wex testing relativistic celestial mechanics with radio pulsars i ciufolini et al dragging of inertial frames fundamental physics and satellite laser ranging g petit p wolf p delva atomic time clocks and clock comparisons in relativistic spacetime a review this book features articles written by some of the most prominent leading applied mathematicians as well as young and promising ones the common objective of these articles is to present an important issue which is currently widely discussed in scientific investigation with major human economic or ecological implications each article is as deep as an expert lecture but is also self contained so that even isolated scientists with limited resources can profit greatly from it this book constitutes the thoroughly refereed post conference proceedings of the 18th annual international workshop on selected areas in cryptography sac 2011 held in toronto canada in august 2011 the 23 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 92 submissions the papers are organized in topical sections on cryptanalysis of hash functions security in clouds bits and randomness cryptanalysis of ciphers cryptanalysis of public key cryptography cipher implementation new designs and mathematical aspects of applied cryptography this book is the first to tell the extraordinary yet unheralded history of monoclonal antibodies often referred to as mabs they are unfamiliar to most nonscientists yet these microscopic protein molecules are everywhere quietly shaping our lives and healthcare discovered in the mid 1970s in the laboratory where watson and crick had earlier unveiled the structure of dna mabs have radically changed understandings of the pathways of disease they have enabled faster cheaper and more accurate clinical diagnostic testing on a vast scale and they have played a fundamental role in pharmaceutical innovation leading to such developments as recombinant interferon and insulin and personalized drug therapies such as herceptin today mabs constitute six of the world s top ten blockbuster drugs and make up a third of new introduced treatments lara v marks recounts the risks and opposition that a daring handful of individuals faced while discovering and developing mabs and she addresses the related scientific medical technological business and social challenges that arose she offers a saga of entrepreneurs whose persistence and creativity ultimately changed the healthcare landscape and brought untold relief to millions of patients even so as marks shows controversies over mabs remain and she examines current debates over the costs and effectiveness of these innovative drugs

Proceedings of the Workshop Semigroups and Languages 2004 in recent years semigroups and languages have seen huge developments and found their motivation in other fields of mathematics as well as in computer science this book is a collection of original contributions in those fields the proceedings have been selected for coverage in oco index to scientific technical proceedings istp isi proceedings oco index to scientific technical proceedings istp cdrom version isi proceedings oco cc proceedings oco engineering physical sciences

From the Workshop of the Mesopotamian Scribe 2020-09-24 this volume presents first editions of a variety of cuneiform tablets from the old babylonian period belonging to the collection of the late shlomo moussaieff it makes available for the first time three texts representing varying levels of mesopotamian scribal education the first is what the authors argue is the most complete copy of the first fifty lines of the standard version of the sumerian epic gilgameš and the bull of heaven the second is a hitherto unpublished bilingual sumerian akkadian lexical list of unknown provenance similar to the proto aa syllabary each of the 314 entries preserved on this tablet provides a pronunciation gloss a sumerian logogram and an akkadian translation a unique feature of this list is that the signs are arranged on the basis of graphic concatenation each sign contains one of the graphic components of the preceding sign it also yields a great number of hitherto unknown synonymous akkadian translations to the sumerian logograms the final chapter contains an edition of two groups of lenticular school tablets containing thirty three elementary level scribal exercises with this volume jacob klein and yitschak sefati preserve and disseminate important artifacts that advance the study of sumerian literature mesopotamian lexicography and ancient near eastern scribal education

Third International Workshop on Ion Mobility Spectrometry 1995 in recent years semigroups and languages have seen huge developments and found their motivation in other fields of mathematics as well as in computer science this book is a collection of original contributions in those fields the proceedings have been selected for coverage in index to scientific technical proceedings istp isi proceedings index to scientific technical proceedings istp cdrom version isi proceedings cc proceedings engineering physical sciences

Semigroups And Languages, Proceedings Of The Workshop 2004-07-14 the following topics are discussed in this volume recent developments in operator theory coherent states and wavelet analysis geometric and topological methods in theoretical physics and quantum field theory and applications of these methods of mathematical physics to problems in atomic and molecular physics as well as the world of the elementary particles and their fundamental interactions two extensive sets of lecture notes on quantization techniques in general and quantum gauge theories and strings as an avenue towards quantum geometry are also included the volume should be of interest to anyone working in a field using the mathematical methods associated with any of these topics

Proceedings of the Second International Workshop on Contemporary Problems in Mathematical Physics 2002 the continuation of global poverty is inextricably entwined with the fundamental philosophy of the market economy it is driven by the individual s neverending desire for profit leading to a critically imbalanced distribution of resources as an entrepreneurial initiative this book advocates a shift in the responsibility for relief of poverty away from the government to the private sector and in particular to corporate entities the concept of the residual is used as the cornerstone of business operations and wealth distribution corporate decision makers while making proprietary decisions for resources allocation must assume stewardship responsibility and be accountable not just to financial investors but to all contributors of the corporate entity

Fields And Geometry 1986 - Proceedings Of The 22nd Winter School And Workshop Of Theoretical Physics 1987-01-01 this volume will interest researchers and others involved with high precision measurements and the development of mathematical tools for this purpose advances in metrology depend on improvements in scientific and technical knowledge the quality of instruments a better use of advanced mathematical tools and the development of new ones a tradition of close cooperation between metrologists and mathematicians while found elsewhere is lacking in italy this workshop wishes to start such a cooperation by providing a common meeting ground several industrial sectors particularly those of instrumentation and software are likely to benefit from this process since metrology has a high impact on the overall quality of industrial products and applied mathematics is becoming increasingly important in industrial processes

Advanced Mathematical Tools In Metrology - Proceedings Of The International Workshop 1994-05-18 this book discusses achievements in the last 20 years recent developments and future perspectives in nonlinear science both continuous and discrete systems classical and quantum are considered

PRO 17: International RILEM Workshop on Shrinkage of Concrete - 'Shrinkage 2000' 2000 a textbook of workshop technology manufacturing processes to the students of degree and diploma of all the indian and foreign universities the object of this book is to present the subject matter in a most concise compact to the point and lucid manner while writing the book we have constantly kept in mind the various requirements of the students no effort has been spared to enrich the book with simple language and self explanatory diagrams every care has been taken not to make the book voluminous as the students have also to face other subjects of equal importance

Proceedings of the Workshop on Nonlinearity, Integrability and All That--Twenty Years After NEEDS '79 2000 bonn workshop on combinatorial optimization

A Textbook of Workshop Technology 2008 this volume gathers the latest advances innovations and applications in the field of structural health monitoring shm and more broadly in the fields of smart materials and intelligent systems the volume covers highly diverse topics including signal processing smart sensors autonomous systems remote sensing and support uav platforms for shm internet of things industry 4 0 and shm for civil structures and infrastructures the contributions which are published after a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different specialists the contents of this volume reflect the outcomes of the activities of ewshm european workshop on structural health monitoring in 2020

Bonn Workshop on Combinatorial Optimization 2011-10-10 this book published in two volumes embodies the proceedings of the 15th european workshop on advanced control and diagnosis acd 2019 held in bologna italy in november 2019 it features contributed and invited papers from academics and professionals specializing in an important aspect of control and automation the book discusses current theoretical research developments and open problems and illustrates practical applications and industrial priorities with a focus on both theory and applications it spans a wide variety of up to date topics in the field of systems and control including robust control adaptive control fault tolerant control control reconfiguration and model based diagnosis of linear nonlinear and hybrid systems as the subject coverage has expanded to include cyber physical production systems industrial internet of things and sustainability issues some contributions are of an interdisciplinary nature involving ict disciplines and environmental sciences this book is a valuable reference for both academics and professionals in the area of systems and control with a focus on advanced control automation fault diagnosis and condition monitoring

European Workshop on Structural Health Monitoring 2021-01-08 in a relatively short time commutative algebra has grown in many directions over a period of nearly fifty years starting from the so called homological period till today the area has developed into a rich laboratory of methods structures and problem solving tools one could say a distinct modern trend of commutative algebra is a strong interaction with various aspects of combinatorics and computer algebra this has resulted in a new sense of measuring for old assumptions and a better understanding of old results at the same time invariant theory and algebraic geometry remain constituents of an everlasting classical source responsible for important themes that have been developed in commutative algebra such as deformation linkage algebraic tori and determinantal rings etc this volume of proceedings is well entrenched on the lines of development outlined above as such it aims to keep researchers and mathematicians well informed of the developments in the field

15th European Workshop on Advanced Control and Diagnosis (ACD 2019) 2022-06-13 the purpose of the berkeley workshop on monoids was to give expository talks by the most qualified experts in the emerging main areas of monoid and semigroup theory including applications to theoretical computer science this was supplemented with current research papers the topics covered in an accessible way for the mathematical and theoretical computer community were kernels and expansions in semigroup theory implicit operations inverse monoids varieties of semigroups and universal algebra linear semigroups and monoids of lie type monoids acting on tress synthesis theorem regular semigroups and applications type ii conjecture application to theoretical computer science and decision problems

Commutative Algebra - Proceedings Of The Workshop 1994-08-19 quantum symmetry modelled through quantum group or its dual quantum algebra is a very active field of relevant physical and mathematical research stimulated often by physical intuition and with promising physical applications this volume gives some information on the progress of this field during the years after the quantum group workshop in clausthal 1989 quantum symmetry is connected with very different approaches and views the field is not yet coherent there are different notions of quantum groups and of quantum algebras through algebraic deformations of groups and algebras hence its development has various directions following more special mathematical and physical interests

Monoids And Semigroups With Applications - Proceedings Of The Berkeley Workshop In Monoids 1991-03-06 articles are presented covering a wide range of topics in the mathematical methods of quantum physics these include infinite dimensional analysis based on white noise operator algebra methods feynman path integrals quantum mechanics on non simply connected spaces recent results in supersymmetric theories stochastic and quantum dynamics yang baxter systems statistical physics thermo field dynamics and quantum field theory the essays are based on lectures contributed for the second jagna international workshop held in honour of prof hiroshi ezawa a distinguished physicist educator and former president of the physical society of japan

Quantum Symmetries - Proceedings Of The International Workshop On Mathematical Physics 1993-10-29 this book covers new experimental and theoretical studies that focus on the modern developments of nuclear fission aiming at various applications in a wide range of fields and bringing together scientists working in different fields related to nuclear fission the following topics are dealt with radioactive beam facilities based on nuclear fission nuclear waste transmutations and the future accelerator driven system fission and spallation nuclear data and modeling experimental and theoretical advances in the study of nuclear fission fusion reactions and decay modes of superheavy nuclei stability against fission and many body systems superasymmetric and multicluster fission the proceedings have been selected for coverage in index to scientific technical proceedings istp isi proceedings index to scientific technical proceedings istp cdrom version isi proceedings cc proceedings engineering physical sciences contents quasifission of the dinuclear system g g adamian et al variation of charge density in fusion reactions r a gherghescu et al fission investigations and evaluation activities at irmm f j hambach et al traps for fission product ions at igisol s kopecky et al fission barriers in the quasi molecular shape path g royer et al dissipation in a wide range of mass asymmetries m mireia the alto project a 50 mev electron beam at ipn orsay o bajeat et al deformed open quantum systems a isar light heavy ion dissipative collisions at low energy a pop et al estimates of the α rates for deformed superheavy nuclei i silisteanu et al and other papers readership researchers in nuclear physics keywords nuclear fission radioactive beams accelerator driven systems superheavy nuclei decay modes

Mathematical Methods of Quantum Physics: 2nd Jagna International Workshop 1999-08-19 pt i analytical methods on the ist for discrete nonlinear schrödinger systems and polarization shift for discrete vector solitons m j ablowitz b prinari a d trubatch soliton solutions of coupled nonlinear klein gordon equations t alagesan characteristic initial value problems for integrable hyperbolic reductions of einstein s equations g a alekseev discrete sine gordon equation m boiti und weitere integrable and non integrable equations with peakons a degasperis d d holm a n w hone solution of a free boundary problem for a nonlinear diffusion convection equation s de lillo m c salvatori g sanchini iterative construction of solutions for a nonisospectral problem in 2 1 dimensions p g estevez discrete breathers close to the anticontinuum limit existence and wave scattering s flach und weitere complex toda chain an integrable universal model for adiabatic n soliton interactions v s gerdjikov on the reductions and scattering data for the generalized zakharov shabat systems g g grahovski bilinear representation for the modified nonlinear schrödinger equations and their quantum potential deformations j h lee o k pashaev noncommutative burgers equations l martina o k pashaev on the quasi classical sumbol dressing method b konopelchenko a moro new solvable matrix integrals u n case a yu orlov integrable hydrodynamic chains m v pavlov kpil new results and open problems a k pogrebkov a workmate for kdvp c sabatier space time lattice for operator schrödinger equation a spire v v konotop l vazquez on isomonodromy deformations for the zs akns flows d wu pt ii symmetry properties hamiltonian methods and group theoretical methods new symmetry reductions for a lubrication model m s bruzón und weitere quantum solitons for quantum information and quantum computing r k bullough m wadati solving renormalization group equations by recursion relations a cafarella c corianò m guzzi a tri hamiltonian route to spectral curves l degiovanni g magnano construction of real forms of complexified hamiltonian dynamical systems v s gerdjikov und weitere integrable and super integrable systems in classical and quantum mechanics m giordano und weitere non commuting coordinates in vortex dynamics and in the hall effect related to exotic galilean symmetry p a horváthy structure of multi meron knot action l s isaev a p protogenov compatible nonlocal poisson brackets of hydrodynamic type and integrable reductions of the lamé equations o i mokhov pseudoanti hermiticity in qqm time reversal and kramers degeneracy g scolarici on the integrability of supersymmetric equations p tempesta r a leo g soliani

New Applications of Nuclear Fission 2004-09-24 this volume commemorates the 10th anniversary of the discovery of high temperature superconductors hts the historical framework and present status of hts are reviewed and the future of the field contemplated so that the hts science can be unraveled and the hts technology developed this book contains the works of about 200 members of the international hts community from universities government centers and laboratories major industries and small businesses it focuses on early and major new findings in the physics and mechanisms materials and applications of hts with a projection to the emerging and future areas in science and technology

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