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Algebraic Structures and Applications - Sergei Silvestrov 2021-07-03 This book explores the latest advances in algebraic structures and applications, and focuses on mathematical concepts, methods, structures, problems, algorithms and computational methods important in the natural sciences, engineering and modern technologies. In particular, it features mathematical methods and models of non-commutative and non-associative algebras, hom-algebra structures, generalizations of differential
calculus, quantum deformations of algebras, Lie algebras and their generalizations, semi-groups and groups, constructive algebra, matrix analysis and its interplay with topology, knot theory, dynamical systems, functional analysis, stochastic processes, perturbation analysis of Markov chains, and applications in network analysis, financial mathematics and engineering mathematics. The book addresses both theory and applications, which are illustrated with a wealth of ideas, proofs and examples to help readers understand the material and develop new mathematical methods and concepts of their own. The high-quality chapters share a wealth of new methods and results, review cutting-edge research and discuss open problems and directions for future research. Taken together, they offer a source of inspiration for a broad range of researchers and research students whose work involves algebraic structures and their applications, probability theory and mathematical statistics, applied mathematics, engineering mathematics and related areas.

Algebraic Structures and Applications - Western Australian Conference on Algebra Staff 1982

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Ordered Algebraic Structures - W. B. Powell 1985-10-01 Ordered Algebraic Structures combines the work of 22 research mathematicians to give full details on the diversifying fields of ordered algebraic structures. It covers order relations on groups, semigroups and rings. It investigates completions, embeddings and amalgamations finitely presented and free lattice-ordered groups, varieties of lattice-ordered groups and Mathiak valuation, intrinsic metrics and more

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applications-Giorgio Talenti 2017-10-02 Written as a tribute to the mathematician Carlo Pucci on the occasion of his 70th birthday, this is a collection of authoritative contributions from over 45 internationally acclaimed experts in the field of partial differential equations. Papers discuss a variety of topics such as problems where a partial differential equation is coupled with unfavourable boundary or initial conditions, and boundary value problems for partial differential equations of elliptic type.

Logic and Algebra-Aldo Ursini 2017-10-05
"Attempts to unite the fields of mathematical logic and general algebra. Presents a collection of refereed papers inspired by the International Conference on Logic and Algebra held in Siena, Italy, in honor of the late Italian mathematician Roberto Magari, a leading force in the blossoming of research in mathematical logic in Italy since the 1960s.

Combinatorial Designs and Applications-W.D. Wallis 2020-12-23 An advanced reference containing 21 selected or consolidated papers presented at an international conference in April 1988 at Tunxi (now Hunangshan), China. Contains recent, previously unavailable findings of Chinese mathematicians; discusses problems, results, and proving methods of combinatorial designs.

Semigroup theory and applications-Phillipe Clement 2020-12-22 This book contains articles on maximal regulatory problems, interpolation spaces, multiplicative perturbations of generators, linear and nonlinear evolution equations, integro-differential equations, dual semigroups, positive semigroups, applications to control theory, and boundary value problems.

Nonlinear analysis and applications-Lakshmikantham 2020-11-26 This book attempts to put together the works of a wide range of mathematical scientists. It consists of the...
proceedings of the Seventh Conference on "Nonlinear Analysis and Applications" including papers that were delivered as invited talks and research reports.

**Continuous Lattices and Their Applications**
Rudolf E. Hoffmann 2020-12-17 This book contains articles on the notion of a continuous lattice, which has its roots in Dana Scott's work on a mathematical theory of computation, presented at a conference on categorical and topological aspects of continuous lattices held in 1982.

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S.P. Singh 2020-11-25 This book contains lecture notes in pure and applied mathematics from the proceedings of an International Conference on Nonlinear Analysis and Applications, held at Memorial University of Newfoundland in June 1981. It includes information on fractional calculus and the Stieltjes transform.

**Differential Geometry, Calculus of Variations, and Their Applications**
George M. Rassias 1985-10-01 This book contains a series of papers on some of the longstanding research problems of geometry, calculus of variations, and their applications. It is suitable for advanced graduate students, teachers, research mathematicians, and other professionals in mathematics.

**Differential Equations with Applications in Biology, Physics, and Engineering**
Goldstein 2017-10-05 Suitable as a textbook for a graduate seminar in mathematical modelling, and as a resource for scientists in a wide range of disciplines. Presents 22 lectures from an international conference in Leibnitz, Austria (no date mentioned), explaining recent developments and results in differential equation
Factor Categories with Applications to Direct Decomposition of Modules - Manabu Harada 1983-09-09

Ordered Algebraic Structures - Jorge Martínez 2012-12-06 Proceedings of the Caribbean Mathematics Foundation Conference, held in Curaçao, August 1988

Boundary Control and Variation - Jean-Paul Zolesio 1994-07-28 Based on the Working Conference on Boundary Control and Boundary Variation held in Sophia-Antipolis, France, this work provides important examinations of shape optimization and boundary control of hyperbolic systems, including free boundary problems and stabilization. It offers a new approach to large and nonlinear variation of the boundary using global Eulerian co-ordinates and intrinsic geometry.

Factorization in Integral Domains - Daniel Anderson 1997-04-22 The contents in this work are taken from both the University of Iowa's Conference on Factorization in Integral Domains, and the 909th Meeting of the American Mathematical Society's Special Session in Commutative Ring Theory held in Iowa City. The text gathers current work on factorization in integral domains and monoids, and the theory of divisibility, emphasizing possible different lengths of factorization into irreducible elements.

Zero-Dimensional Commutative Rings - David F. Anderson 1995-04-10 This work presents advances in zero-dimensional commutative rings and commutative algebra. It illustrates the research frontier with 52 open problems together with comments on the relevant literature, and offers a comprehensive index for easy access to information. Wide-ranging developments in commutative ring theory are examined.
Spectral Theory & Computational Methods of Sturm-Liouville Problems-Don Hinton 2021-02-28 Presenting the proceedings of the conference on Sturm-Liouville problems held in conjunction with the 26th Barrett Memorial Lecture Series at the University of Tennessee, Knoxville, this text covers both qualitative and computational theory of Sturm-Liouville problems. It surveys questions in the field as well as describing applications and concepts.

Complexity, Logic, and Recursion Theory-Andrea Sorbi 2019-05-07 "Integrates two classical approaches to computability. Offers detailed coverage of recent research at the interface of logic, computability theory, and theoretical computer science. Presents new, never-before-published results and provides information not easily accessible in the literature."

Differential Equations and Control Theory-Z. Deng 2020-11-25 This work presents the proceedings from the International Conference on Differential Equations and Control Theory, held recently in Wuhan, China. It provides an overview of current developments in a range of topics including dynamical systems, optimal control theory, stochastic control, chaos, fractals, wavelets and ordinary, partial, functional and stochastic differential equations.

Matrix-Analytic Methods in Stochastic Models-S. Chakravarthy 2016-04-19 Based on the proceedings of the first International Conference on Matrix-Analytic Methods (MAM) in Stochastic Models, held in Flint, Michigan, this book presents a general working knowledge of MAM through tutorial articles and application papers. It furnishes information on MAM studies carried out in the former Soviet Union.

Geometry and Physics-H. Pedersen 1996-10-11 "Based on the proceedings of the Special Session on Geometry and Physics held over a six month
period at the University of Aarhus, Denmark and on articles from the Summer school held at Odense University, Denmark. Offers new contributions on a host of topics that involve physics, geometry, and topology. Written by more than 50 leading international experts.

Rings, Groups, and Algebras-X. H. Cao
2020-12-22 "Integrates and summarizes the most significant developments made by Chinese mathematicians in rings, groups, and algebras since the 1950s. Presents both survey articles and recent research results. Examines important topics in Hopf algebra, representation theory, semigroups, finite groups, homology algebra, module theory, valuation theory, and more."

Abelian Groups and Modules-K.M. Rangaswamy 1996-08-16 Contains the proceedings of an international conference on abelian groups and modules held recently in Colorado Springs. Presents the latest developments in abelian groups that have facilitated cross-fertilization of new techniques from diverse areas such as the representation theory of posets, model theory, set theory, and module theory.

Moduli of Vector Bundles-Masaki Maruyama 1996-04-23 "Contains papers presented at the 35th Taniguchi International Symposium held recently in Sanda and Kyoto, Japan. Details the latest developments concerning moduli spaces of vector bundles or instantons and their application. Covers a broad array of topics in both differential and algebraic geometry."

partial differential equation methods in control and shape analysis-Giuseppe Da Prato 1997-02-20 "Based on the International Federation for Information Processing WG 7.2 Conference, held recently in Pisa, Italy. Provides recent results as well as entirely new material on control theory and shape analysis. Written by
leading authorities from various disciplines."

**Stochastic Processes and Functional Analysis**-Jerome Goldstein 2020-09-24 "Covers the areas of modern analysis and probability theory. Presents a collection of papers given at the Festschrift held in honor of the 65 birthday of M. M. Rao, whose prolific published research includes the well-received Marcel Dekker, Inc. books Theory of Orlicz Spaces and Conditional Measures and Applications. Features previously unpublished research articles by a host of internationally recognized scholars."

**Analytic Methods in Commutative Algebra**-DRAPER 1982-04-28

**Function Spaces**-Krzysztof Jarow 1991-12-23 This book is based on the conference on Function Spaces held at Southern Illinois University at Edwardsville, in April, 1990. It is designed to cover a wide range of topics, including spaces of analytic functions, isometries of function spaces, geometry of Banach spaces, and Banach algebras.

**Functional Analysis**-Klaus D. Bierstedt 1993-09-16 These proceedings from the Symposium on Functional Analysis explore advances in the usually separate areas of semigroups of operators and evolution equations, geometry of Banach spaces and operator ideals, and Frechet spaces with applications in partial differential equations.

**Comparison Methods and Stability Theory**-Xinzhi Liu 2020-12-18 This work is based on the International Symposium on Comparison Methods and Stability Theory held in Waterloo, Ontario, Canada. It presents advances in comparison methods and stability theory in a wide range of nonlinear problems, covering a variety of topics such as ordinary, functional,
impulsive, integro-, partial, and uncertain differential equations.

**Evolution Equations, Control Theory, and Biomathematics**-Philippe Clement 1993-11-23
Based on the Third International Workshop Conference on Evolution Equations, Control Theory and Biomathematics, held in Hans-sur-Lesse, Belgium. The papers examine important advances in evolution equations related to physical, engineering and biological applications.

**Function Spaces**-K. Jarosz 1995-07-19
Presenting the proceedings from the Second Conference on Function Spaces, this work details known results and fresh discoveries on a wide range of topics concerning function spaces. It covers advances in areas such as spaces and algebras of analytic functions, Lp-spaces, spaces of Banach-valued functions, isometries of function spaces, geometry of Banach spaces, and Banach algebras.

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