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Recent Developments in Algebra and Analysis

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Recent Developments In Applicable Mathematics

Oscar Castillo,Dipak Kumar Jana,Debasis Giri,Arif Ahmed

Recent Developments In Applicable Mathematics:

Recent Advances in Industrial and Applied Mathematics Tomás Chacón Rebollo,Rosa Donat,Inmaculada Higueras,2022-04-06 This open access book contains review papers authored by thirteen plenary invited speakers to the 9th International Congress on Industrial and Applied Mathematics Valencia July 15 19 2019 Written by top level scientists recognized worldwide the scientific contributions cover a wide range of cutting edge topics of industrial and applied mathematics mathematical modeling industrial and environmental mathematics mathematical biology and medicine reduced order modeling and cryptography The book also includes an introductory chapter summarizing the main features of the congress This is the first volume of a thematic series dedicated to research results presented at ICIAM 2019 Valencia Congress Recent Advances in Computational and Applied Mathematics Theodore E. Simos,2010-10-10 This multi author contributed proceedings volume contains recent advances in several areas of Computational and Applied Mathematics Each review is written by well known leaders of Computational and Applied Mathematics The book gives a comprehensive account of a variety of topics including Efficient Global Methods for the Numerical Solution of Nonlinear Systems of Two point Boundary Value Problems Advances on collocation based numerical methods for Ordinary Differential Equations and Volterra Integral Equations Basic Methods for Computing Special Functions Melt Spinning Optimal Control and Stability Issues Brief survey on the CP methods for the Schr dinger equation Symplectic Partitioned Runge Kutta methods for the numerical integration of periodic and oscillatory problems Recent Advances in Computational and Applied Mathematics is aimed at advanced undergraduates and researchers who are working in these fast moving fields *Recent Advances in Applied Mathematics and Applications to the Dynamics of Fluid Flows* Suripeddi Srinivas,Badeti Satyanarayana,J. Prakash,2022-10-15 This book presents select proceedings of the 5th International Conference on Applications of Fluid Dynamics ICAFD 2020 organized by the School of Mechanical Engineering Science VIT AP University India in association with the University of Johannesburg Auckland Park Kingsway Campus South Africa It identifies the existing challenges in the area of applied mathematics and mechanics of solids and fluids and emphasizes the importance of establishing new methods and algorithms to address these challenges The topics covered include diverse applications of fluid dynamics in aerospace dynamics and propulsion atmospheric sciences compressible flow environmental fluid dynamics control structures viscoelasticity and mechanics of composites Given the contents the book will be a useful resource for researchers as well as practitioners working in the area of mechanical engineering and applied mathematics *Trends in Industrial and Applied Mathematics* Abul Hasan Siddiqi,M. Kocvara,2013-12-01 An important objective of the study of mathematics is to analyze and visualize phenomena of nature and real world problems for its proper understanding Gradually it is also becoming the language of modem financial instruments To project some of these developments the conference was planned under the joint auspices of the Indian Society of Industrial and Applied mathematics ISlAM and Guru Nanak Dev University G N D U

Amritsar India Dr Pammy Manchanda chairperson of Mathematics Department G N D U was appointed the organizing secretary and an organizing committee was constituted The Conference was scheduled in World Mathematics Year 2000 but due one reason or the other it could be held during 22 25 January 2001 How ever keeping in view the suggestion of the International Mathematics union we organized two symposia Role of Mathematics in industrial development and vice versa and How image of Mathematics can be improved in public These two symposia aroused great interest among the participants and almost everyone participated in the deliberations The discussion in these two themes could be summarized in the lengthy following lines Tradition of working in isolation is a barrier for interaction with the workers in the other fields of science and engineering what to talk of non academic areas specially the private sector of finance and industry Therefore it is essential to build bridges within in stitutions and between institutions *Recent Advances in Intelligent Information Systems and Applied Mathematics* Oscar Castillo,Dipak Kumar Jana,Debasis Giri,Arif Ahmed,2020-01-31 This book describes the latest advances in intelligent techniques such as fuzzy logic neural networks and optimization algorithms and their relevance in building intelligent information systems in combination with applied mathematics The authors also outline the applications of these systems in areas like intelligent control and robotics pattern recognition medical diagnosis time series prediction and optimization of complex problems By sharing fresh ideas and identifying new targets problems it offers young researchers and students new directions for their future research The book is intended for readers from mathematics and computer science in particular professors and students working on theory and applications of intelligent systems for real world applications *Modern Applied Mathematics* J. C. Misra,2005 This comprehensive volume introduces educational units dealing with important topics of modern applied mathematics Chapters include comprehensive information on different topics such as Methods of Approximation for Mapping in Probability Spaces Mathematical Modelling of Seismic Sources Climate Variability Geometry of Differential Equations Modelling of Particle Driven Gravity Currents Impulsive Free Surface Flows Internal Wave Propagation Isogroups and Exact Solutions of Higher Order Boltzman Equation Molecular and Particle Modelling Asymptotic Behaviour of Solutions of Nonlinear Partial Differential Equations Mixed Boundary Value Problems Dual Integral Equations Dual Series Equations and their Applications Evolutionary Mechanisms of Organization in Complex Systems Zero Sum Differential Games Bernoulli Convolutions Probability Distribution Functions O D E Approach to Stochastic Approximation Bayesian Inference on the Long Range Dependence **Recent Trends in Applied Mathematics** S. R. Mishra,T. N. Dhamala,O. D. Makinde,2021-03-01 This book presents select proceedings of the International Conference on Applied Mathematics in Science and Engineering AMSE 2019 Various topics covered include computational fluid dynamics applications of differential equations in engineering numerical methods for ODEs and PDEs mathematical modeling and analysis of biological systems optimal control and controllability of differential equations fractional calculus and its applications nonlinear analysis and functional analysis This book will be of interest to researchers academicians and students

in the fields of applied sciences mathematics and engineering **Recent Progress and Modern Challenges in Applied Mathematics, Modeling and Computational Science** Roderick Melnik,Roman Makarov,Jacques Belair,2017-09-05 This volume is an excellent resource for professionals in various areas of applications of mathematics modeling and computational science It focuses on recent progress and modern challenges in these areas The volume provides a balance between fundamental theoretical and applied developments emphasizing the interdisciplinary nature of modern trends and detailing state of the art achievements in Applied Mathematics Modeling and Computational Science The chapters have been authored by international experts in their respective fields making this book ideal for researchers in academia practitioners and graduate students It can also serve as a reference in the diverse selected areas of applied mathematics modelling and computational sciences and is ideal for interdisciplinary collaborations Recent Developments in Applied Probability and Statistics Luc Devroye,Bülent Karasözen,Michael Kohler,Ralf Korn,2010-05-19 This book is devoted to Professor J rgen Lehn who passed away on September 29 2008 at the age of 67 It contains invited papers that were presented at the Wo shop on Recent Developments in Applied Probability and Statistics Dedicated to the Memory of Professor J rgen Lehn Middle East Technical University METU Ankara April 23 24 2009 which was jointly organized by the Technische Univ sit t Darmstadt TUD and METU The papers present surveys on recent devel ments in the area of applied probability and statistics In addition papers from the Panel Discussion Impact of Mathematics in Science Technology and Economics are included J rgen Lehn was born on the 28th of April 1941 in Karlsruhe From 1961 to 1968 he studied mathematics in Freiburg and Karlsruhe and obtained a Diploma in Mathematics from the University of Karlsruhe in 1968 He obtained his Ph D at the University of Regensburg in 1972 and his Habilitation at the University of Karlsruhe in 1978 Later in 1978 he became a C3 level professor of Mathematical Statistics at the University of Marburg In 1980 he was promoted to a C4 level professorship in mathematics at the TUD where he was a researcher until his death **Current and Future Directions in Applied Mathematics** Mark Alber,Bei Hu,Joachim Rosenthal,2012-12-06 Mark Alber Bei Hu and Joachim Rosenthal vii Part I Some Remarks on Applied Mathematics Roger Brockett 1 Mathematics is a Profession Christopher 1 Byrnes 4 Comments on Applied Mathematics Avner Friedman 9 Towards an Applied Mathematics for Computer Science Jeremy Gunawardena 11 Infomercial for Applied Mathematics Darryl Holm 15 On Research in Mathematical Economics M Ali Khan 21 Applied Mathematics in the Computer and Communications Industry Brian Marcus 25 frends in Applied Mathematics Jerrold E Marsden 28 Applied Mathematics as an Interdisciplinary Subject Clyde F Martin 31 vi Contents Panel Discussion on Future Directions in Applied Mathe matics Laurence R Taylor 38 Part II Feedback Stabilization of Relative Equilibria for Mechanical Systems with Symmetry A M Bloch J E Marsden and G Sanchez 43 Oscillatory Descent for Function Minimization R Brockett 65 On the Well Posedness of the Rational Covariance Extension Problem C l Byrnes H J Landau and A Lindquist 83 Singular Limits in Fluid Mechanics P Constantin 109 Singularities and Defects in Patterns Far from Threshold N M Ercolani 137 Mathematical Modeling and

Simulation for Applications of Fluid Flow in Porous Media R E Ewing 161 On Loeb Measure Spaces and their Significance for N on Cooperative Game Theory M A Khan and Y Sun 183 Mechanical Systems with Symmetry Variational Principles and Integration Algorithms J E Marsden and J M Wendlandt 219 Preface The applied sciences are faced with increasingly complex problems which call for sophisticated mathematical models **Recent Developments in Theory and Applications of Fractional Order Systems** Mehmet Yavuz,Dharmendra Kumar Singh,Stuart Townley,2025-09-01 Recent Developments in Theory and Applications of Fractional Order Systems presents a rigorous and thorough analysis of various aspects of Fractional Calculus The book provides readers with a thorough understanding of fundamental concepts and methods of applied mathematics utilized in a variety of scientific and engineering disciplines The authors present each computational modeling concept with a definition methods theorems and observations followed by typical application problems and step by step solutions Each topic is covered in detail followed typically by several meticulously worked out examples and a problem set containing many additional related problems In addition the book discusses recent developments and the latest research on Fractional Calculus and its applications demonstrating important applications in Engineering Computer Science Management Social Science and the Humanities Provides readers with a thorough understanding of fundamental concepts and methods of applied mathematics utilized in a variety of scientific and engineering disciplines Presents a systematic introduction to most of the important special functions in Fractional Calculus that commonly arise in scientific and engineering practice Explores many salient computational modeling properties Analyzes theoretical and practical problems in Fractional Calculus in fields such as Engineering Computer Science Management Social Science and the Humanities *Recent Trends in Educational Technology and Administration* Fred Paas,Srikanta Patnaik,Taosheng Wang,2024-05-30 This book introduces various techniques of educational technology blending theory with real world applications making it an essential tool for a wide range of readers Different innovative methods covered in this book enhance its usefulness in education administration and management The content of the book covers chapters both for the beginners and experts serving as a key reference for educators and administrators This book serves as a source of fresh ideas for researchers exploring the evolving aspects of educational technology and administration This book s wide range of coverage highlights its importance in the education sector offering new insights and practical solutions that cater to the needs of today s diverse learning settings By bridging the gap between theory and practice it facilitates a deeper understanding of the shifting paradigms in education driven by technological progress and a shift towards more learner centred models *Recent Developments in Fixed-Point Theory* Mudasir Younis,Lili Chen,Deepak Singh,2024-07-03 This contributed book has a comprehensive collection of 17 carefully curated chapters that delve into the latest advancements in fixed point theory and its diverse applications It bridges the gap between theory and practicality providing readers with a deep understanding of fundamental theorems related to the existence and uniqueness of maps The book covers a wide array

of applications each showcasing the relevance of fixed point theory in various domains Readers will explore applications dealing with topological properties the resolution of integral equations across multiple classes nonlinear differential equations fractional differential equations dynamic programming problems and engineering science related challenges This diverse range of topics ensures that the book caters to both theoretical researchers and practitioners seeking real world solutions The primary feature of the book is the pictorial depictions of examples making complex concepts more accessible and understandable These visual representations enhance the learning experience enabling readers to grasp the enunciated outcomes effortlessly The book stands as an essential reference for scholars researchers and professionals interested in the theoretical foundations and practical implications of fixed point theory Its blend of theoretical insights and real world applications makes it an indispensable addition to the field of mathematics and its interdisciplinary applications **Recent Developments in Mathematical, Statistical and Computational Sciences** D. Marc Kilgour,Herb Kunze,Roman Makarov,Roderick Melnik,Xu Wang,2021-08-29 This book constitutes an up to date account of principles methods and tools for mathematical and statistical modelling in a wide range of research fields including medicine health sciences biology environmental science engineering physics chemistry computation finance economics and social sciences It presents original solutions to real world problems emphasizes the coordinated development of theories and applications and promotes interdisciplinary collaboration among mathematicians statisticians and researchers in other disciplines Based on a highly successful meeting the International Conference on Applied Mathematics Modeling and Computational Science AMMCS 2019 held from August 18 to 23 2019 on the main campus of Wilfrid Laurier University Waterloo Canada the contributions are the results of submissions from the conference participants They provide readers with a broader view of the methods ideas and tools used in mathematical statistical and computational sciences Applied Functional Analysis Abul Hasan Siddiqi,2003-09 The methods of functional analysis have helped solve diverse real world problems in optimization modeling analysis numerical approximation and computer simulation Applied Functional Analysis presents functional analysis results surfacing repeatedly in scientific and technological applications and presides over the most current analytical and numerical methods in infinite dimensional spaces This reference highlights critical studies in projection theorem Riesz representation theorem and properties of operators in Hilbert space and covers special classes of optimization problems Supported by 2200 display equations this guide incorporates hundreds of up to date citations **Recent Advances in Riemannian and Lorentzian Geometries** Krishan L. Duggal,Ramesh Sharma,2003 This volume covers material presented by invited speakers at the AMS special session on Riemannian and Lorentzian geometries held at the annual Joint Mathematics Meetings in Baltimore Topics covered include classification of curvature related operators curvature homogeneous Einstein 4 manifolds linear stability instability singularity and hyperbolic operators of spacetimes spectral geometry of holomorphic manifolds cut loci of nilpotent Lie groups conformal geometry of almost Hermitian manifolds and also submanifolds of complex and contact

spaces This volume can serve as a good reference source and provide indications for further research It is suitable for graduate students and research mathematicians interested in differential geometry <u>Recent Progress in Computational and Applied PDES</u> Tony F. Chan,Yunqing Huang,Tao Tang,Jinchao Xu,Lung-an Ying,2012-12-06 The book discusses some key scientific and technological developments in computational and applied partial differential equations It covers many areas of scientific computing including multigrid methods image processing finite element analysis and adaptive computations It also covers software technology algorithms and applications Most papers are of research level and are contributed by some well known mathematicians and computer scientists The book will be useful to engineers computational scientists and graduate students **Applied Mathematics and Computational Intelligence** Oscar Castillo,Uttam Kumar Bera,Dipak Kumar Jana,2023-05-23 This book contains select papers presented at the International Conference on Applied Mathematics and Computational Intelligence ICAMCI 2020 held at the National Institute of Technology Agartala Tripura India from 19 20 March 2020 It discusses the most recent breakthroughs in intelligent techniques such as fuzzy logic neural networks optimization algorithms and their application in the development of intelligent information systems by using applied mathematics The book also explains how these systems will be used in domains such as intelligent control and robotics pattern recognition medical diagnosis time series prediction and complicated problems in optimization The book publishes new developments and advances in various areas of type 3 fuzzy intuitionistic fuzzy computational mathematics block chain creak analysis supply chain soft computing fuzzy systems hybrid intelligent systems thermos elasticity etc The book is targeted to researchers scientists professors and students of mathematics computer science applied science and engineering interested in the theory and applications of intelligent systems in real world applications It provides young researchers and students with new directions for their future study by exchanging fresh thoughts and finding new problems **Recent Developments in Structure-Preserving Algorithms for Oscillatory Differential Equations** Xinyuan Wu,Bin Wang,2018-04-19 The main theme of this book is recent progress in structure preserving algorithms for solving initial value problems of oscillatory differential equations arising in a variety of research areas such as astronomy theoretical physics electronics quantum mechanics and engineering It systematically describes the latest advances in the development of structure preserving integrators for oscillatory differential equations such as structure preserving exponential integrators functionally fitted energy preserving integrators exponential Fourier collocation methods trigonometric collocation methods and symmetric and arbitrarily high order time stepping methods Most of the material presented here is drawn from the recent literature Theoretical analysis of the newly developed schemes shows their advantages in the context of structure preservation All the new methods introduced in this book are proven to be highly effective compared with the well known codes in the scientific literature This book also addresses challenging problems at the forefront of modern numerical analysis and presents a wide range of modern tools and techniques <u>Recent Developments of Fuzzy Matrix Theory and Applications</u>

Madhumangal Pal,2024-05-27 This book provides a comprehensive overview of the development of fuzzy matrix theory from its inception to its current state It covers various types of fuzzy matrices such as intuitionistic fuzzy matrices interval valued fuzzy matrices interval valued intuitionistic fuzzy matrices bipolar fuzzy matrices picture fuzzy matrices neutrosophic fuzzy matrices m polar fuzzy matrices and similar one Drawing primarily from the author s research work and collaborations the book offers a state of the art discussion of these topics Theoretical concepts are illustrated with examples for clarity accompanied by figures depicting fuzzy matrices and their variations Suitable for both beginners and expert researchers the book offers a wealth of material and includes numerous open problems at the end of almost all chapters to encourage further exploration and investigation

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