

World Scientific Series in Applicable Analysis
Volume 1

Editor
R. P. Agarwal

RECENT TRENDS IN DIFFERENTIAL EQUATIONS

World Scientific

Recent Trends In Differential Equations

Thiruppudaimarudhur N. Narasimhan



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Recent Trends In Differential Equations Ravi P Agarwal, 1992-05-07 This series aims at reporting new developments of a high mathematical standard and of current interest Each volume in the series shall be devoted to mathematical analysis that has been applied or potentially applicable to the solutions of scientific engineering and social problems The first volume of WSSIAA contains 42 research articles on differential equations by leading mathematicians from all over the world This volume has been dedicated to V Lakshmikantham on his 65th birthday for his significant contributions in the field of differential equations

Recent Trends in Partial Differential Equations Juan Luis Vazquez, Xavier Cabré, José Antonio Carrillo, 2006 This volume contains the research and expository articles for the courses and talks given at the UIMP RSME Lluís A Santalo Summer School Recent Trends in Partial Differential Equations The goal of the Summer School was to present some of the many advances that are currently taking place in the interaction between nonlinear partial differential equations and their applications to other scientific disciplines Oriented to young post docs and advanced doctoral students the courses dealt with topics of current interest Some of the tools presented are quite powerful and sophisticated These new methods are presented in an expository manner or applied to a particular example to demonstrate the main ideas of the method and to serve as a handy introduction to further study Young researchers in partial differential equations and colleagues from neighboring fields will find these notes a good addition to their libraries This is a joint publication of the Real Sociedad Matemática Española and the American Mathematical Society

New Trends in the Applications of Differential Equations in Sciences Angela Slavova, 2023-03-17 This book convenes peer reviewed selected papers presented at the Ninth International Conference New Trends in the Applications of Differential Equations in Sciences NTADES held in Sozopol Bulgaria June 17 20 2022 The works are devoted to many applications of differential equations in different fields of science A number of phenomena in nature physics chemistry biology and in society economics result in problems leading to the study of linear and nonlinear differential equations stochastic equations statistics analysis numerical analysis optimization and more The main topics are presented in the five parts of the book applications in mathematical physics mathematical biology financial mathematics neuroscience and fractional analysis In this volume the reader will find a wide range of problems concerning recent achievements in both theoretical and applied mathematics The main goal is to promote the exchange of new ideas and research between scientists who develop and study differential equations and researchers who apply them for solving real life problems The book promotes basic research in mathematics leading to new methods and techniques useful for applications of differential equations The NTADES 2022 conference was organized in cooperation with the Society of Industrial and Applied Mathematics SIAM the major international organization for Industrial and Applied Mathematics and for the promotion of interdisciplinary collaboration between applied mathematics and science engineering finance and neuroscience

New Trends in the Applications of Differential Equations in Sciences Angela

Slavova,2024-06-15 This book convenes peer reviewed selected papers presented at the Tenth International Conference New Trends in the Applications of Differential Equations in Sciences NTADES held in Saints Constantine and Helena Bulgaria July 17 20 2023 Contributions are devoted to many applications of differential equations in different fields of science A number of phenomena in nature physics chemistry biology and in society economics result in problems leading to the study of linear and nonlinear differential equations stochastic equations statistics analysis numerical analysis optimization and more The main topics are presented in the five parts of the book applications in mathematical physics mathematical biology financial mathematics neuroscience and fractional analysis In this volume the reader will find a wide range of problems concerning recent achievements in both theoretical and applied mathematics The main goal is to promote the exchange of new ideas and research between scientists who develop and study differential equations and researchers who apply them to solve real life problems The book promotes basic research in mathematics leading to new methods and techniques useful for applications of differential equations

Recent Trends in Hydrogeology

Thiruppudaimarudhur N. Narasimhan,1982-01-01 *Recent Trends in Orthogonal Polynomials and Approximation Theory* Jorge Arvesú,Francisco Marcellán,Andrei Martínez

Finkelshtein,2010 This volume contains invited lectures and selected contributions from the International Workshop on Orthogonal Polynomials and Approximation Theory held at Universidad Carlos III de Madrid on September 8 12 2008 and which honored Guillermo Lopez Lagomasino on his 60th birthday This book presents the state of the art in the theory of Orthogonal Polynomials and Rational Approximation with a special emphasis on their applications in random matrices integrable systems and numerical quadrature New results and methods are presented in the papers as well as a careful choice of open problems which can foster interest in research in these mathematical areas This volume also includes a brief account of the scientific contributions by Guillermo Lopez Lagomasino

Recent Trends in Dynamical Systems

Andreas Johann,Hans-Peter Kruse,Florian Rupp,Stephan Schmitz,2013-09-24 This book presents the proceedings of a conference on dynamical systems held in honor of Jürgen Scheurle in January 2012 Through both original research papers and survey articles leading experts in the field offer overviews of the current state of the theory and its applications to mechanics and physics In particular the following aspects of the theory of dynamical systems are covered Stability and bifurcation Geometric mechanics and control theory Invariant manifolds attractors and chaos Fluid mechanics and elasticity Perturbations and multiscale problems Hamiltonian dynamics and KAM theory Researchers and graduate students in dynamical systems and related fields including engineering will benefit from the articles presented in this volume

New Trends In Differential Equations, Control Theory And Optimization - Proceedings Of The 8th Congress Of Romanian Mathematicians Viorel

Barbu,Catalin Lefter,Ioan I Vrabie,2016-06-17 The volume contains a collection of original papers and surveys in various areas of Differential Equations Control Theory and Optimization written by well known specialists and is thus useful for PhD students and researchers in applied mathematics

Recent Trends and Applications in the Numerical Solution of

Ordinary Differential Equations, 1994

New Trends in Stochastic Analysis and Related Topics Huaizhong Zhao, 2011

The volume is dedicated to Professor David Elworthy to celebrate his fundamental contribution and exceptional influence on stochastic analysis and related fields Stochastic analysis has been profoundly developed as a vital fundamental research area in mathematics in recent decades It has been discovered to have intrinsic connections with many other areas of mathematics such as partial differential equations functional analysis topology differential geometry dynamical systems etc

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Recent Trends in Algebraic Development Techniques Mihai Codrescu, Răzvan

Diaconescu, Ionuț Țuțu, 2015-12-29 This book constitutes the thoroughly refereed post conference proceedings of the 22nd International Workshop on Algebraic Development Techniques WADT 2014 held in Sinaia Romania The 8 revised papers presented were carefully reviewed and selected from 13 presentations and focus together with one invited paper on foundations of algebraic specification approaches to formal specification including process calculi and models of concurrent distributed and mobile computing specification languages methods and environments semantics of conceptual modeling methods and techniques model driven development graph transformations term rewriting and proof systems integration of formal specification techniques formal testing and quality assurance validation and verification

Recent Trends in Operator Theory and Partial Differential Equations Vladimir Maz'ya, David Natroshvili, Eugene

Shargorodsky, Wolfgang L. Wendland, 2017-02-23 This volume is dedicated to the eminent Georgian mathematician Roland Duduchava on the occasion of his 70th birthday It presents recent results on Toeplitz Wiener Hopf and pseudodifferential operators boundary value problems operator theory approximation theory and reflects the broad spectrum of Roland Duduchava's research The book is addressed to a wide audience of pure and applied mathematicians

New Trends in Neural Computation José Mira, Joan Cabestany, Alberto Prieto, 1993-05-27

Neural computation arises from the capacity of nervous tissue to process information and accumulate knowledge in an intelligent manner Conventional computational machines have encountered enormous difficulties in duplicating such functionalities This has given rise to the development of Artificial Neural Networks where computation is distributed over a great number of local processing elements with a high degree of connectivity and in which external programming is replaced with supervised and unsupervised learning The papers

presented in this volume are carefully reviewed versions of the talks delivered at the International Workshop on Artificial Neural Networks IWANN 93 organized by the Universities of Catalonia and the Spanish Open University at Madrid and held at Barcelona Spain in June 1993 The 111 papers are organized in seven sections biological perspectives mathematical models learning self organizing networks neural software hardware implementation and applications in five subsections signal processing and pattern recognition communications artificial vision control and robotics and other applications

Nonoscillation Theory of Functional Differential Equations with Applications Ravi P. Agarwal, Leonid Berezansky, Elena Braverman, Alexander Domoshnitsky, 2012-04-23 This monograph explores nonoscillation and existence of positive solutions for functional differential equations and describes their applications to maximum principles boundary value problems and stability of these equations In view of this objective the volume considers a wide class of equations including scalar equations and systems of different types equations with variable types of delays and equations with variable deviations of the argument Each chapter includes an introduction and preliminaries thus making it complete Appendices at the end of the book cover reference material Nonoscillation Theory of Functional Differential Equations with Applications is addressed to a wide audience of researchers in mathematics and practitioners

Recent Trends in Optimization Theory and Applications Ratan Prakash Agarwal, Ravi P. Agarwal, 1995 World Scientific Series in Applicable Analysis WSSIAA aims at reporting new developments of high mathematical standard and current interest Each volume in the series shall be devoted to the mathematical analysis that has been applied or potentially applicable to the solutions of scientific engineering and social problems This volume contains 30 research articles on the theory of optimization and its applications by the leading scientists in the field It is hoped that the material in the present volume will open new vistas in research Contributors B D O Anderson M Bertaja O J Boxma O Burdakov A Cantoni D J Clements B D Craven J B Cruz Jr P Diamond S V Drakunov Y G Evtushenko N M Filatov I Galligani J C Geromel F Giannessi M J Grimble G O Guardabassi D W Gu C H Houpis D G Hull C Itiki X Jian M A Johnson R E Kalaba J C Kalkkuhl M R Katebi T J Kim P Kloeden T Kobylarz A J Laub C S Lee G Leitmann B G Liu J Liu Z Q Luo K A Lurie P Maponi J B Matson A Mess G Pacelli M Pachter I Postlethwaite T Rapcsak M C Recchioni Y Sakawa S V Savastuyuk K Schittkowski Y Shi M A Sikora D D Siljak K L Teo C Tovey P Tseng F E Udwardia H Unbehauen A Vladimirov B Vo J F Whidborne R Xu P L Yu V G Zhadan F Zirilli

Topological Methods in Differential Equations and Inclusions

Andrzej Granas, Marlène Frigon, 2012-12-06 The papers collected in this volume are contributions to the 33rd session of the Seminaire de Mathematiques Superieures SMS on Topological Methods in Differential Equations and Inclusions This session of the SMS took place at the Universite de Montreal in July 1994 and was a NATO Advanced Study Institute ASI The aim of the ASI was to bring together a considerable group of young researchers from various parts of the world and to present to them coherent surveys of some of the most recent advances in this area of Nonlinear Analysis During the meeting 89 mathematicians from 20 countries have had the opportunity to get acquainted with various aspects of the subjects treated in

the lectures as well as the chance to exchange ideas and learn about new problems arising in the field The main topics treated in this ASI were the following Fixed point theory for single and multi valued mappings including topological degree and its generalizations and topological transversality theory existence and multiplicity results for ordinary differential equations and inclusions bifurcation and stability problems ordinary differential equations in Banach spaces second order differential equations on manifolds the topological structure of the solution set of differential inclusions effects of delay perturbations on dynamics of retarded delay differential equations dynamics of reaction diffusion equations non smooth critical point theory and applications to boundary value problems for quasilinear elliptic equations

Recent Trends in Nonlinear Analysis

Jürgen Appell, 2012-12-06 The book contains a collection of 21 original research papers which report on recent developments in various fields of nonlinear analysis The collection covers a large variety of topics ranging from abstract fields such as algebraic topology functional analysis operator theory spectral theory analysis on manifolds partial differential equations boundary value problems geometry of Banach spaces measure theory variational calculus and integral equations to more application oriented fields like control theory numerical analysis mathematical physics mathematical economy and financial mathematics The book is addressed to all specialists interested in nonlinear functional analysis and its applications but also to postgraduate students who want to get in touch with this important field of modern analysis It is dedicated to Alfonso Vignoli who has essentially contributed to the field on the occasion of his sixtieth birthday

Recent Trends In Applied

Systems Research 1995, 1995

Recent Trends in Coatings and Thin Film-Modeling and Application

Rahmat Ellahi, 2021-08-31 This Special Issue contains articles include but not limited to empirical analytical or design oriented approaches to the following topics Monitoring of carrying capacity and mechanisms for managing tourist flows in rural areas Systems and tools to measure the social economic and environmental sustainability of rural tourism Integration between public tourism policies and private strategies in the promotion and implementation of sustainable practices Policies for promoting public participation in the planning and development of sustainable rural tourism The impacts of tourism on traditional agricultural activities Identity enhancement of the territory and its productions Good practices in the implementation of rural tourism sustainability

Recent Trends in Numerical Analysis

D. Trigiante, 2000 The contributions for this volume dedicated to honour the 65th birthday of Professor I Galligani have been numerous and cover a wide range of topics of the current Numerical Analysis and of its applications

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