

H-H Dai and P L Sachdev (eds)

# Recent advances in differential equations



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# Recent Advances In Differential Equations

**José-Francisco Rodrigues**



## **Recent Advances In Differential Equations:**

*Recent Advances in Differential Equations* H-H Dai, P.L. Sachdev, 1998-04-01 The First Pan China Conference on Differential Equations was held in Kunming China in June of 1997 Researchers from around the world attended including representatives from the US Canada and the Netherlands but the majority of the speakers hailed from China and Hong Kong This volume contains the plenary lectures and invited talks presented at that conference and provides an excellent view of the research on differential equations being carried out in China Most of the subjects addressed arose from actual applications and cover ordinary and partial differential equations Topics include Recent Advances in Differential Equations Roberto Conti, 2014-05-10 *Recent Advances in Differential Equations* contains the proceedings of a meeting held at the International Center for Theoretical Physics in Trieste Italy on August 24 28 1978 under the auspices of the U S Army Research Office The papers review the status of research in the field of differential equations ordinary partial and functional Both theoretical aspects differential operators periodic solutions stability and bifurcation asymptotic behavior of solutions etc and problems arising from applications reaction diffusion equations control problems heat flow etc are discussed Comprised of 33 chapters this book first examines non cooperative trajectories of  $n$  person dynamical games and stable non cooperative equilibria followed by a discussion on the determination and application of Vekua resolvents The reader is then introduced to generalized Hopf bifurcation some Cauchy problems arising in computational methods and boundary value problems for pairs of ordinary differential operators Subsequent chapters focus on degenerate evolution equations and singular optimal control stability of neutral functional differential equations local exact controllability of nonlinear evolution equations and turbulence and higher order bifurcations This monograph will be of interest to students and practitioners in the field of mathematics Recent Advances in Differential Equations and Applications Juan Luis García Guirao, José Alberto Murillo Hernández, Francisco Periago Esparza, 2019 This work gathers a selection of outstanding papers presented at the 25th Conference on Differential Equations and Applications 15th Conference on Applied Mathematics held in Cartagena Spain in June 2017 It supports further research into both ordinary and partial differential equations numerical analysis dynamical systems control and optimization trending topics in numerical linear algebra and the applications of mathematics to industry The book includes 14 peer reviewed contributions and mainly addresses researchers interested in the applications of mathematics especially in science and engineering It will also greatly benefit PhD students in applied mathematics engineering and physics **Recent Advances in Differential Equations and Applications** Juan Luis García Guirao, José Alberto Murillo Hernández, Francisco Periago Esparza, 2019-01-04 This work gathers a selection of outstanding papers presented at the 25th Conference on Differential Equations and Applications 15th Conference on Applied Mathematics held in Cartagena Spain in June 2017 It supports further research into both ordinary and partial differential equations numerical analysis dynamical systems control and optimization trending topics in numerical linear algebra and the applications of

mathematics to industry The book includes 14 peer reviewed contributions and mainly addresses researchers interested in the applications of mathematics especially in science and engineering It will also greatly benefit PhD students in applied mathematics engineering and physics      Recent Advances in Differential Equations and Mathematical Physics Nikolai Chernov, 2006 Surveys topics in differential equations that are associated with mathematical physics This book includes such topics as asymptotic formulas for the ground state energy of fermionic gas J self adjoint Dirac operators and spectral theory of Schrodinger operators It is suitable for mathematicians and physicists      Delay Differential Equations Balakumar Balachandran, Tamás Kalmár-Nagy, David E. Gilsinn, 2009-04-05 Delay Differential Equations Recent Advances and New Directions cohesively presents contributions from leading experts on the theory and applications of functional and delay differential equations DDEs Students and researchers will benefit from a unique focus on theory symbolic and numerical methods which illustrate how the concepts described can be applied to practical systems ranging from automotive engines to remote control over the Internet Comprehensive coverage of recent advances analytical contributions computational techniques and illustrative examples of the application of current results drawn from biology physics mechanics and control theory Students engineers and researchers from various scientific fields will find Delay Differential Equations Recent Advances and New Directions a valuable reference      **Recent Advances in Differential Equations and Control Theory** Concepción Muriel, Carmen Pérez-Martínez, 2021-03-13 This book collects the latest results and new trends in the application of mathematics to some problems in control theory numerical simulation and differential equations The work comprises the main results presented at a thematic minisymposium part of the 9th International Congress on Industrial and Applied Mathematics ICIAM 2019 held in Valencia Spain from 15 to 18 July 2019 The topics covered in the 6 peer review contributions involve applications of numerical methods to real problems in oceanography and naval engineering as well as relevant results on switching control techniques which can have multiple applications in industrial complexes electromechanical machines biological systems etc Problems in control theory as in most engineering problems are modeled by differential equations for which standard solving procedures may be insufficient The book also includes recent geometric and analytical methods for the search of exact solutions for differential equations which serve as essential tools for analyzing problems in many scientific disciplines      Recent Advances in Harmonic Analysis and Partial Differential Equations Andrea R. Nahmod, 2012 This volume is based on the AMS Special Session on Harmonic Analysis and Partial Differential Equations and the AMS Special Session on Nonlinear Analysis of Partial Differential Equations both held March 12 13 2011 at Georgia Southern University Statesboro Georgia as well as the JAMI Conference on Analysis of PDEs held March 21 25 2011 at Johns Hopkins University Baltimore Maryland These conferences all concentrated on problems of current interest in harmonic analysis and PDE with emphasis on the interaction between them This volume consists of invited expositions as well as research papers that address prospects of the recent significant development in the field of analysis and PDE The central

topics mainly focused on using Fourier spectral and geometrical methods to treat wellposedness scattering and stability problems in PDE including dispersive type evolution equations higher order systems and Sobolev spaces theory that arise in aspects of mathematical physics The study of all these problems involves state of the art techniques and approaches that have been used and developed in the last decade The interrelationship between the theory and the tools reflects the richness and deep connections between various subjects in both classical and modern analysis

**Recent Advances in Partial Differential Equations and Applications** Vicențiu D. Rădulescu, Adélia Sequeira, Vsevolod A. Solonnikov, 2016-06-28 This volume contains the proceedings of the International Conference on Recent Advances in PDEs and Applications in honor of Hugo Beirão da Veiga's 70th birthday held from February 17-21 2014 in Levico Terme Italy The conference brought together leading experts and researchers in nonlinear partial differential equations to promote research and to stimulate interactions among the participants The workshop program testified to the wide ranging influence of Hugo Beirão da Veiga on the field of partial differential equations in particular those related to fluid dynamics In his own work da Veiga has been a seminal influence in many important areas Navier Stokes equations Stokes systems non Newtonian fluids Euler equations regularity of solutions perturbation theory vorticity phenomena and nonlinear potential theory as well as various degenerate or singular models in mathematical physics This same breadth is reflected in the mathematical papers included in this volume

**Recent Advances in Partial Differential Equations, Venice 1996** Peter D. Lax, L. Nirenberg, Renato Spigler, 1998 Lax and Nirenberg are two of the most distinguished mathematicians of our times Their work on partial differential equations PDEs over the last half century has dramatically advanced the subject and has profoundly influenced the course of mathematics A huge part of the development in PDEs during this period has either been through their work motivated by it or achieved by their postdocs and students A large number of mathematicians honored these two exceptional scientists in a week long conference in Venice June 1996 on the occasion of their 70th birthdays This volume contains the proceedings of the conference which focused on the modern theory of nonlinear PDEs and their applications Among the topics treated are turbulence kinetic models of a rarefied gas vortex filaments dispersive waves singular limits and blow up solutions conservation laws Hamiltonian systems and others The conference served as a forum for the dissemination of new scientific ideas and discoveries and enhanced scientific communication by bringing together such a large number of scientists working in related fields The event allowed the international mathematics community to honor two of its outstanding members

Recent Advances in the Theory and Applications of Mass Transport José-Francisco Rodrigues, 2004 Contains both survey and research articles on methods of optimal mass transport and applications in physics

**Recent Advances in Scientific Computing and Partial Differential Equations** S.-Y. Cheng, Chi-Wang Shu, Tao Tang, 2003 The volume is from the proceedings of the international conference held in celebration of Stanley Osher's sixtieth birthday It presents recent developments and exciting new directions in scientific computing and partial differential equations for time dependent

problems and its interplay with other fields such as image processing computer vision and graphics Over the past decade there have been very rapid developments in the field This volume emphasizes the strong interaction of advanced mathematics with real world applications and algorithms The book is suitable for graduate students and research mathematicians interested in scientific computing and partial differential equations *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 Recent Advances in Nonlinear Partial Differential Equations and Applications Luis López Bonilla, 2007 The articles of this book are written by leading experts in partial differential equations and their applications who present overviews here of recent advances in this broad area of mathematics The formation of shocks in fluids modern numerical computation of turbulence the breaking of the Einstein equations in a vacuum the dynamics of defects in crystals effects due to entropy in hyperbolic conservation laws the Navier Stokes and other limits of the Boltzmann equation occupancy times for Brownian motion in a two dimensional wedge and new methods of analyzing and solving integrable systems are some of this volume's subjects The reader will find an exposition of important advances without a lot of technicalities and with an emphasis on the basic ideas of this field

*Advances in Differential Equations*, 2008 *The  $p$ -Harmonic Equation and Recent Advances in Analysis* Pietro Poggi-Corradini, 2005 Comprised of papers from the IIIrd Prairie Analysis Seminar held at Kansas State University this book reflects the many directions of current research in harmonic analysis and partial differential equations Included is the work of the distinguished main speaker Tadeusz Iwaniec his invited guests John Lewis and Juan Manfredi and many other leading researchers The main topic is the so called  $p$  harmonic equation which is a family of nonlinear partial differential equations generalizing the usual Laplace equation This study of  $p$  harmonic equations touches upon many areas of analysis with deep relations to functional analysis potential theory and calculus of variations The material is suitable for graduate students and research mathematicians interested in harmonic analysis and partial differential equations **Recent Advances in Numerical Methods for Partial Differential Equations and Applications** Xiaobing Feng, Tim P. Schulze, 2002 This book is derived from lectures presented at the 2001 John H Barrett Memorial Lectures at the University of Tennessee Knoxville The topic was computational mathematics focusing on parallel numerical algorithms for partial differential equations their implementation and applications in fluid mechanics and material science Compiled here are articles from six of nine speakers

Each of them is a leading researcher in the field of computational mathematics and its applications A vast area that has been coming into its own over the past 15 years computational mathematics has experienced major developments in both algorithmic advances and applications to other fields These developments have had profound implications in mathematics science engineering and industry With the aid of powerful high performance computers numerical simulation of physical phenomena is the only feasible method for analyzing many types of important phenomena joining experimentation and theoretical analysis as the third method of scientific investigation The three aspects applications theory and computer implementation comprise a comprehensive overview of the topic Leading lecturers were Mary Wheeler on applications Jinchao Xu on theory and David Keyes on computer implementation Following the tradition of the Barrett Lectures these in depth articles and expository discussions make this book a useful reference for graduate students as well as the many groups of researchers working in advanced computations including engineering and computer scientists

**Recent Advances in Industrial and Applied Mathematics** Tomás Chacón Rebollo, Rosa Donat, Inmaculada Higuera, 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 PDEs: Analysis, Numerics and Control** Anna Doubova, Manuel González-Burgos, Francisco Guillén-González, Mercedes Marín Beltrán, 2018-11-02 This book contains the main results of the talks given at the workshop Recent Advances in PDEs Analysis Numerics and Control which took place in Sevilla Spain on January 25 27 2017 The work comprises 12 contributions given by high level researchers in the partial differential equation PDE area to celebrate the 60th anniversary of Enrique Fernández-Cara University of Sevilla The main topics covered here are Control and inverse problems Analysis of Fluid mechanics and Numerical Analysis The work is devoted to researchers in these fields

**Recent Advances in Intuitionistic Fuzzy Logic Systems** Said Melliani, Oscar Castillo, 2018-10-09 This book aims at providing an overview of state of the art in both the theory and methods of intuitionistic fuzzy logic partial differential equations and numerical methods in informatics It covers topics such as fuzzy intuitionistic Hilbert spaces intuitionistic fuzzy differential equations fuzzy intuitionistic metric spaces and numerical methods for differential equations It reports on applications such as fuzzy real time scheduling intelligent control diagnostics and time series prediction Chapters were carefully selected among contributions presented at the second edition of the International Conference on Intuitionistic Fuzzy Sets and Mathematical Science ICIFSMAS held on April 11 13 2018 at Al Akhawayn University of Ifrane in Morocco

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