



UNIVERSITY OF MINNESOTA

RECENT ADVANCES IN NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS

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Recent Advances In Differential Equations

Andrea R. Nahmod



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 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 **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 Control Theory** Concepción Muriel,Carmen Pérez-Martinez,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, 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

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 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

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