

Recent Topics in Nonlinear PDE IV

Edited by

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Recent Topics In Nonlinear Pde Iv North Holland Mathematics Studies Volume 16

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L'Enseignement mathématique, 1989 Vols for 1965 include a separately paged section Bulletin bibliographique

Numerical Verification Methods and Computer-Assisted Proofs for Partial Differential Equations Mitsuhiro T. Nakao, Michael Plum, Yoshitaka Watanabe, 2019-11-11 In the last decades various mathematical problems have been solved by computer assisted proofs among them the Kepler conjecture the existence of chaos the existence of the Lorenz attractor the famous four color problem and more In many cases computer assisted proofs have the remarkable advantage compared with a theoretical proof of additionally providing accurate quantitative information The authors have been working more than a quarter century to establish methods for the verified computation of solutions for partial differential equations mainly for nonlinear elliptic problems of the form $u_f(x, u)$ with Dirichlet boundary conditions Here by verified computation is meant a computer assisted numerical approach for proving the existence of a solution in a close and explicit neighborhood of an approximate solution The quantitative information provided by these techniques is also significant from the viewpoint of a posteriori error estimates for approximate solutions of the concerned partial differential equations in a mathematically rigorous sense In this monograph the authors give a detailed description of the verified computations and computer assisted proofs for partial differential equations that they developed In Part I the methods mainly studied by the authors Nakao and Watanabe are presented These methods are based on a finite dimensional projection and constructive a priori error estimates for finite element approximations of the Poisson equation In Part II the computer assisted approaches via eigenvalue bounds developed by the author Plum are explained in detail The main task of this method consists of establishing eigenvalue bounds for the linearization of the corresponding nonlinear problem at the computed approximate solution Some brief remarks on other approaches are also given in Part III Each method in Parts I and II is accompanied by appropriate numerical examples that confirm the actual usefulness of the authors methods Also in some examples practical computer algorithms are supplied so that readers can easily implement the verification programs by themselves

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, 1984 **Solvability, Regularity, and Optimal Control of Boundary Value Problems for PDEs** Pierluigi Colli, Angelo Favini, Elisabetta Rocca, Giulio Schimperna, Jürgen Sprekels, 2017-11-03 This volume gathers contributions in the field of partial differential equations with a focus on mathematical models in phase transitions complex fluids and thermomechanics These contributions are dedicated to Professor Gianni Gilardi on the occasion of his 70th birthday It particularly develops the following thematic areas nonlinear dynamic and stationary equations well posedness of initial and boundary value problems for systems of PDEs regularity properties for the solutions optimal control problems and optimality conditions feedback stabilization and stability results Most of the articles are presented in a self contained manner and describe new achievements and or the state of the art in their line of research providing interested readers with an overview of recent advances and future research directions in PDEs *Frontiers in PDE-Constrained Optimization* Harbir Antil, Drew P.

Kouri, Martin-D. Lacasse, Denis Ridzal, 2018-10-12 This volume provides a broad and uniform introduction of PDE constrained optimization as well as to document a number of interesting and challenging applications Many science and engineering applications necessitate the solution of optimization problems constrained by physical laws that are described by systems of partial differential equations PDEs As a result PDE constrained optimization problems arise in a variety of disciplines including geophysics earth and climate science material science chemical and mechanical engineering medical imaging and physics This volume is divided into two parts The first part provides a comprehensive treatment of PDE constrained optimization including discussions of problems constrained by PDEs with uncertain inputs and problems constrained by variational inequalities Special emphasis is placed on algorithm development and numerical computation In addition a comprehensive treatment of inverse problems arising in the oil and gas industry is provided The second part of this volume focuses on the application of PDE constrained optimization including problems in optimal control optimal design and inverse problems among other topics

Proceedings in Print, 1990 *Mathematical Reviews*, 2004 **Discrete and Continuous Dynamical Systems**, 2009 **Control Methods in PDE-Dynamical Systems** Fabio Ancona, 2007 While rooted in controlled PDE systems this 2005 AMS IMS SIAM Summer Research Conference sought to reach out to a rather distinct yet scientifically related research community in mathematics interested in PDE based dynamical systems Indeed this community is also involved in the study of dynamical properties and asymptotic long time behavior in particular stability of PDE mixed problems It was the editors conviction that the time had become ripe and the circumstances propitious for these two mathematical communities that of PDE control and optimization theorists and that of dynamical specialists to come together in order to share recent advances and breakthroughs in their respective disciplines This conviction was further buttressed by recent discoveries that certain energy methods initially devised for control theoretic a priori estimates once combined with dynamical systems techniques yield wholly new asymptotic results on well established nonlinear PDE systems particularly hyperbolic These expectations are now particularly well reflected in the contributions to this volume which involve nonlinear parabolic as well as hyperbolic equations and their attractors aero elasticity elastic systems Euler Korteweg models thin film equations Schrodinger equations beam equations etc in addition the static topics of Helmholtz and Morrey potentials are also prominently featured A special component of the present volume focuses on hyperbolic conservation laws to take advantage of recent theoretical advances with significant implications also on applied problems in all these areas the reader will find state of the art accounts as stimulating starting points for further research

Bibliographic Guide to Conference Publications New York Public Library. Research Libraries, 1987 Vols for 1975 include publications cataloged by the Research Libraries of the New York Public Library with additional entries from the Library of Congress MARC tapes **Books in Series, 1876-1949** R.R. Bowker Company, 1982 Computational and Applied Mathematics, I Claude Brezinski, Ulrich Kulisch, 1992 Presenting research papers dealing with algorithms this book will appeal to researchers and engineers involved

in numerical analysis **Nonlinear Partial Differential Equations** Helge Holden, Kenneth H. Karlsen, 2012-01-14 The topic of the 2010 Abel Symposium hosted at the Norwegian Academy of Science and Letters Oslo was Nonlinear Partial Differential Equations the study of which is of fundamental importance in mathematics and in almost all of natural sciences economics and engineering This area of mathematics is currently in the midst of an unprecedented development worldwide Differential equations are used to model phenomena of increasing complexity and in areas that have traditionally been outside the realm of mathematics New analytical tools and numerical methods are dramatically improving our understanding of nonlinear models Nonlinearity gives rise to novel effects reflected in the appearance of shock waves turbulence material defects etc and offers challenging mathematical problems On the other hand new mathematical developments provide new insight in many applications These proceedings present a selection of the latest exciting results by world leading researchers

Integrable Systems and Random Matrices Jinho Baik, 2008 This volume contains the proceedings of a conference held at the Courant Institute in 2006 to celebrate the 60th birthday of Percy A Deift The program reflected the wide ranging contributions of Professor Deift to analysis with emphasis on recent developments in Random Matrix Theory and integrable systems The articles in this volume present a broad view on the state of the art in these fields Topics on random matrices include the distributions and stochastic processes associated with local eigenvalue statistics as well as their appearance in combinatorial models such as TASEP last passage percolation and tilings The contributions in integrable systems mostly deal with focusing NLS the Camassa Holm equation and the Toda lattice A number of papers are devoted to techniques that are used in both fields These techniques are related to orthogonal polynomials operator determinants special functions Riemann Hilbert problems direct and inverse spectral theory Of special interest is the article of Percy Deift in which he discusses some open problems of Random Matrix Theory and the theory of integrable systems **Stochastic Optimal Control in Infinite**

Dimension Giorgio Fabbri, Fausto Gozzi, Andrzej Święch, 2017-06-22 Providing an introduction to stochastic optimal control in infinite dimension this book gives a complete account of the theory of second order HJB equations in infinite dimensional Hilbert spaces focusing on its applicability to associated stochastic optimal control problems It features a general introduction to optimal stochastic control including basic results e g the dynamic programming principle with proofs and provides examples of applications A complete and up to date exposition of the existing theory of viscosity solutions and regular solutions of second order HJB equations in Hilbert spaces is given together with an extensive survey of other methods with a full bibliography In particular Chapter 6 written by M Fuhrman and G Tessitore surveys the theory of regular solutions of HJB equations arising in infinite dimensional stochastic control via BSDEs The book is of interest to both pure and applied researchers working in the control theory of stochastic PDEs and in PDEs in infinite dimension Readers from other fields who want to learn the basic theory will also find it useful The prerequisites are standard functional analysis the theory of semigroups of operators and its use in the study of PDEs some knowledge of the dynamic programming approach to

stochastic optimal control problems in finite dimension and the basics of stochastic analysis and stochastic equations in infinite dimensional spaces Subject Guide to Books in Print ,1993 **Forthcoming Books** Rose Arny,2000 New Zealand Journal of Mathematics ,2005 **E-Learning and Games** Abdennour El Rhalibi,Zhigeng Pan,Haiyan Jin,Dandan Ding,Andres A. Navarro-Newball,Yinghui Wang,2019-07-16 This book constitutes the refereed proceedings of the 12th International Conference on e Learning and Games EDUTAINMENT 2018 held in Xi an China in June 2018 The 32 full and 32 short papers presented in this volume were carefully reviewed and selected from 85 submissions The papers were organized in topical sections named virtual reality and augmented reality in edutainment gamification for serious game and training graphics imaging and applications game rendering and animation game rendering and animation and computer vision in edutainment e learning and game and computer vision in edutainment *Books in Series* ,1985 Vols for 1980 issued in three parts Series Authors and Titles

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