

Recent Advances in Nonlinear Partial Differential Equations

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Recent Advances In Partial Differential Equations

**Concepción Muriel, Carmen Pérez-
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Recent Advances In Partial Differential Equations:

Recent Advances in Partial Differential Equations Miguel Ángel Herrero, Enrique Zuazua, 1994 This is an up to date survey of current research with partial differential equations Topics discussed include the evolution of hypersurfaces by mean curvature flow nonlinear wave equations including harmonic maps and blow up mechanisms for semilinear parabolic equations

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 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 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

Finite Difference Methods for Ordinary and Partial Differential Equations Randall J. LeVeque, 2007-01-01 This book introduces finite difference methods for both ordinary differential equations ODEs and partial differential equations PDEs and discusses the similarities and differences between algorithm design and stability analysis for different types of equations A unified view of stability theory for ODEs and PDEs is presented and the interplay between ODE and PDE analysis is stressed The text emphasizes standard classical methods but several newer approaches also are introduced and are described in the context of simple motivating examples

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

Inverse Problems for Partial Differential Equations Victor Isakov, 2013-06-29 This book describes the contemporary state of the theory and some numerical aspects of inverse problems in partial differential equations The topic is of substantial and growing interest for many scientists and engineers and accordingly to graduate students in these areas Mathematically these problems are relatively new and quite challenging due to the lack of conventional stability and to nonlinearity and nonconvexity Applications include recovery of inclusions from anomalies of their gravitational fields reconstruction of the interior of the human body from exterior electrical ultrasonic and magnetic measurements recovery of interior structural parameters of detail of machines and of the underground from similar data non destructive evaluation and locating flying or navigated objects from their acoustic or electromagnetic fields Currently there are hundreds of publications containing new and interesting results A purpose of the book is to collect and present many of them in a readable and informative form Rigorous proofs are presented whenever they are relatively short and can be demonstrated by quite general mathematical techniques Also we prefer to present results that from our point of view contain fresh and promising ideas In some cases there is no complete mathematical theory so we give only available results We do not assume that a reader possesses an enormous mathematical technique In fact a moderate knowledge of partial differential equations of the Fourier transform

and of basic functional analysis will suffice

PETSc for Partial Differential Equations: Numerical Solutions in C and Python Ed Bueler, 2020-10-22 The Portable Extensible Toolkit for Scientific Computation PETSc is an open source library of advanced data structures and methods for solving linear and nonlinear equations and for managing discretizations This book uses these modern numerical tools to demonstrate how to solve nonlinear partial differential equations PDEs in parallel It starts from key mathematical concepts such as Krylov space methods preconditioning multigrid and Newton's method In PETSc these components are composed at run time into fast solvers Discretizations are introduced from the beginning with an emphasis on finite difference and finite element methodologies The example C programs of the first 12 chapters listed on the inside front cover solve mostly elliptic and parabolic PDE problems Discretization leads to large sparse and generally nonlinear systems of algebraic equations For such problems mathematical solver concepts are explained and illustrated through the examples with sufficient context to speed further development PETSc for Partial Differential Equations addresses both discretizations and fast solvers for PDEs emphasizing practice more than theory Well structured examples lead to run time choices that result in high solver performance and parallel scalability The last two chapters build on the reader's understanding of fast solver concepts when applying the Firedrake Python finite element solver library This textbook the first to cover PETSc programming for nonlinear PDEs provides an on ramp for graduate students and researchers to a major area of high performance computing for science and engineering It is suitable as a supplement for courses in scientific computing or numerical methods for differential equations

Real-time PDE-constrained Optimization Lorenz T. Biegler, Omar Ghattas, Matthias Heinkenschloss, David Keyes, Bart van Bloemen Waanders, 2007-01-01 Many engineering and scientific problems in design control and parameter estimation can be formulated as optimization problems that are governed by partial differential equations PDEs The complexities of the PDEs and the requirement for rapid solution pose significant difficulties A particularly challenging class of PDE constrained optimization problems is characterized by the need for real time solution i.e. in time scales that are sufficiently rapid to support simulation based decision making Real Time PDE Constrained Optimization the first book devoted to real time optimization for systems governed by PDEs focuses on new formulations methods and algorithms needed to facilitate real time PDE constrained optimization In addition to presenting state of the art algorithms and formulations the text illustrates these algorithms with a diverse set of applications that includes problems in the areas of aerodynamics biology fluid dynamics medicine chemical processes homeland security and structural dynamics Audience readers who have expertise in simulation and are interested in incorporating optimization into their simulations who have expertise in numerical optimization and are interested in adapting optimization methods to the class of infinite dimensional simulation problems or who have worked in offline optimization contexts and are interested in moving to online optimization

Recent Developments in Numerical Methods and Software for ODEs/DAEs/PDEs George D. Byrne, 1992 Ordinary differential equations ODEs differential algebraic equations DAEs and partial differential equations

PDEs are among the forms of mathematics most widely used in science and engineering Each of these equation types is a focal point for international collaboration and research This book contains papers by recognized numerical analysts who have made important contributions to the solution of differential systems in the context of realistic applications and who now report the latest results of their work in numerical methods and software for ODEs DAEs PDEs The papers address parallelization and vectorization of numerical methods the numerical solution of ODEs DAEs PDEs and the use of these numerical methods in realistic scientific and engineering applications

Mathematical Physics with Partial Differential Equations James Kirkwood,2011-12-01 Mathematical Physics with Partial Differential Equations is for advanced undergraduate and beginning graduate students taking a course on mathematical physics taught out of math departments The text presents some of the most important topics and methods of mathematical physics The premise is to study in detail the three most important partial differential equations in the field the heat equation the wave equation and Laplace s equation The most common techniques of solving such equations are developed in this book including Green s functions the Fourier transform and the Laplace transform which all have applications in mathematics and physics far beyond solving the above equations The book s focus is on both the equations and their methods of solution Ordinary differential equations and PDEs are solved including Bessel Functions making the book useful as a graduate level textbook The book s rigor supports the vital sophistication for someone wanting to continue further in areas of mathematical physics Examines in depth both the equations and their methods of solution Presents physical concepts in a mathematical framework Contains detailed mathematical derivations and solutions reinforcing the material through repetition of both the equations and the techniques Includes several examples solved by multiple methods highlighting the strengths and weaknesses of various techniques and providing additional practice

Partial Differential Equations in Action Sandro Salsa,2015-04-24 The book is intended as an advanced undergraduate or first year graduate course for students from various disciplines including applied mathematics physics and engineering It has evolved from courses offered on partial differential equations PDEs over the last several years at the Politecnico di Milano These courses had a twofold purpose on the one hand to teach students to appreciate the interplay between theory and modeling in problems arising in the applied sciences and on the other to provide them with a solid theoretical background in numerical methods such as finite elements Accordingly this textbook is divided into two parts The first part chapters 2 to 5 is more elementary in nature and focuses on developing and studying basic problems from the macro areas of diffusion propagation and transport waves and vibrations In turn the second part chapters 6 to 11 concentrates on the development of Hilbert spaces methods for the variational formulation and the analysis of mainly linear boundary and initial boundary value problems

Nonlinear Partial Differential Equations Mi-Ho Giga,Yoshikazu Giga,Jürgen Saal,2010-05-30 This work will serve as an excellent first course in modern analysis The main focus is on showing how self similar solutions are useful in studying the behavior of solutions of nonlinear partial differential equations

especially those of parabolic type This textbook will be an excellent resource for self study or classroom use *Special Issue on Recent Advances in Partial Differential Equations* Ky Fan, 2006 *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 *Implicit Partial Differential Equations* Bernard Dacorogna, Paolo Marcellini, 2012-12-06 Nonlinear partial differential equations has become one of the main tools of modern mathematical analysis in spite of seemingly contradictory terminology the subject of nonlinear differential equations finds its origins in the theory of linear differential equations and a large part of functional analysis derived its inspiration from the study of linear pdes In recent years several mathematicians have investigated nonlinear equations particularly those of the second order both linear and nonlinear and either in divergence or nondivergence form Quasilinear and fully nonlinear differential equations are relevant classes of such equations and have been widely examined in the mathematical literature In this work we present a new family of differential equations called implicit partial differential equations described in detail in the introduction of Chapter 1 It is a class of nonlinear equations that does not include the family of fully nonlinear elliptic pdes We present a new functional analytic method based on the Baire category theorem for handling the existence of almost everywhere solutions of these implicit equations The results have been obtained for the most part in recent years and have important applications to the calculus of variations nonlinear elasticity problems of phase transitions and optimal design some results have not been published elsewhere **Lectures on Partial Differential Equations** Ivan Georgievich Petrovskiĭ, 1966 **Recent Advances in Partial Differential Equations, Venice 1996** Peter D. Lax, L. Nirenberg, Renato Spigler, Stephanos Venakides, 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 *Some Recent Advances in Partial Difference Equations* Eugenia N. Petropoulou, 2010-12-13 Lately there is an increasing interest in partial difference equations demonstrated by the enormous amount of research papers devoted to them The initial reason for this increasing interest was the development of computers and the area of numerical analysis Partial Differential Equations and Spectral Theory Michael Demuth, Bert-Wolfgang Schulze, 2012-12-06 The intention of the international conference PDE2000 was to bring together specialists from different areas of modern analysis mathematical physics and geometry to discuss not only the recent progress in their own fields but also the interaction between these fields The special topics of the conference were spectral and scattering theory semiclassical and asymptotic analysis pseudodifferential operators and their relation to geometry as well as partial differential operators and their connection to stochastic analysis and to the theory of semigroups The scientific advisory board of the conference in Clausthal consisted of M Ben Artzi Jerusalem Chen Hua Peking M Demuth Clausthal T Ichinose Kanazawa L Rodino Turin B W Schulze Potsdam and J Sj strand Paris The book is aimed at researchers in mathematics and mathematical physics with interests in partial differential equations and all its related fields

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