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Andrew J. Majda
Editors

Multidimensional Hyperbolic Problems and Computations



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Multidimensional Hyperbolic Problems And Computations Ima Volumes In Mathematics And Its Applications 29:

Multidimensional Hyperbolic Problems and Computations James Glimm, Andrew J. Majda, 2012-12-06 This IMA Volume in Mathematics and its Applications MULTIDIMENSIONAL HYPERBOLIC PROBLEMS AND COMPUTATIONS is based on the proceedings of a workshop which was an integral part of the 1988-89 IMA program on NONLINEAR WAVES We are grateful to the Scientific Committee James Glimm Daniel Joseph Barbara Keyfitz Andrew Majda Alan Newell Peter Olver David Sattinger and David Schaeffer for planning and implementing an exciting and stimulating year long program We especially thank the Workshop Organizers Andrew Majda and James Glimm for bringing together many of the major figures in a variety of research fields connected with multidimensional hyperbolic problems Avner Friedman Willard Miller PREFACE A primary goal of the IMA workshop on Multidimensional Hyperbolic Problems and Computations from April 3-14 1989 was to emphasize the interdisciplinary nature of contemporary research in this field involving the combination of ideas from the theory of nonlinear partial differential equations asymptotic methods numerical computation and experiments The twenty six papers in this volume span a wide cross section of this research including some papers on the kinetic theory of gases and vortex sheets for incompressible flow in addition to many papers on systems of hyperbolic conservation laws This volume includes several papers on asymptotic methods such as nonlinear geometric optics a number of articles applying numerical algorithms such as higher order Godunov methods and front tracking to physical problems along with comparison to experimental data and also several interesting papers on the rigorous mathematical theory of shock waves **Numerical Approximation of Hyperbolic Systems of Conservation Laws** Edwige Godlewski, Pierre-Arnaud Raviart, 2021-08-28 This monograph is devoted to the theory and approximation by finite volume methods of nonlinear hyperbolic systems of conservation laws in one or two space variables It follows directly a previous publication on hyperbolic systems of conservation laws by the same authors Since the earlier work concentrated on the mathematical theory of multidimensional scalar conservation laws this book will focus on systems and the theoretical aspects which are needed in the applications such as the solution of the Riemann problem and further insights into more sophisticated problems with special attention to the system of gas dynamics This new edition includes more examples such as MHD and shallow water with an insight on multiphase flows Additionally the text includes source terms and well balanced asymptotic preserving schemes introducing relaxation schemes and addressing problems related to resonance and discontinuous fluxes while adding details on the low Mach number situation Analytical Approaches to Multidimensional Balance Laws Olga S. Rozanova, 2006 It is difficult to overestimate the importance of mathematical investigation of balance laws They arise in many areas of physics mechanics chemistry biology social sciences In this collective book we concentrate in particular on the equations of continuous medium and related to them As a rule they are very complicated in their primitive form An important feature of such equations is a possible formation of singularities even in initially smooth solution within a finite time The structure of the singularities can

be very complex A natural step in the approach to this problem is the transition despite the three dimensionality of our world to spatially one dimensional model Significant progress has been achieved in this direction Unfortunately the methods of the one dimensional theory as usual cannot be adapted to a case of many spatial variables However there are many attempts to deal with multidimensional problems We would like to present some of them All of the papers are written by outstanding experts representing various schools in mathematics and mechanics Each paper is organised as follows it contains an elementary as far as it is possible introduction to a problem a brief review of previously published results and then original results of the authors are presented

Mathematics of Computation 1943-1993: A Half-Century of Computational Mathematics Walter Gautschi,1994 Proceedings of an International Conference held in Vancouver B C August 1993 to commemorate the 50th anniversary of the founding of the journal Mathematics of Computation It consisted of a Symposium on Numerical Analysis and a Minisymposium of Computational Number Theory This proceedings contains 14 invited papers including two not presented at the conference an historical essay on integer factorization and a paper on componentwise perturbation bounds in linear algebra The invited papers present surveys on the various subdisciplines covered by Mathematics of Computation in a historical perspective and in a language accessible to a wide audience The 46 contributed papers address contemporary specialized work Annotation copyright by Book News Inc Portland OR [Handbook of Mathematical Fluid Dynamics](#) S. Friedlander,D. Serre,2002-07-09 The Handbook of Mathematical Fluid Dynamics is a compendium of essays that provides a survey of the major topics in the subject Each article traces developments surveys the results of the past decade discusses the current state of knowledge and presents major future directions and open problems Extensive bibliographic material is provided The book is intended to be useful both to experts in the field and to mathematicians and other scientists who wish to learn about or begin research in mathematical fluid dynamics The Handbook illuminates an exciting subject that involves rigorous mathematical theory applied to an important physical problem namely the motion of fluids [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 **Some Current Topics on Nonlinear Conservation Laws** Ling Hsiao,Zhouping Xin,2000

This volume resulted from a year long program at the Morningside Center of Mathematics at the Academia Sinica in Beijing. It presents an overview of nonlinear conservation laws and introduces developments in this expanding field. Zhouping Xin's introductory overview of the subject is followed by lecture notes of leading experts who have made fundamental contributions to this field of research. A Bressan's theory of well posedness for entropy weak solutions to systems of nonlinear hyperbolic conservation laws in the class of viscosity solutions is one of the most important results in the past two decades. G Chen discusses weak convergence methods and various applications to many problems. P Degond details mathematical modelling of semiconductor devices. B Perthame describes the theory of asymptotic equivalence between conservation laws and singular kinetic equations. Z Xin outlines the recent development of the vanishing viscosity problem and nonlinear stability of elementary wave, a major focus of research in the last decade, and the volume concludes with Y Zheng's lecture on incompressible fluid dynamics. This collection of lectures represents previously unpublished expository and research results of experts in nonlinear conservation laws and is an excellent reference for researchers and advanced graduate students in the areas of nonlinear partial differential equations and nonlinear analysis.

Titles in this series are co published with International Press, Cambridge, MA.

Hyperbolic Problems: Theory, Numerics, Applications - Proceedings Of The Fifth International Conference, James Glimm, M J Graham, J W Grove, Bradley J Plohr, 1996-03-14. The intellectual center of this proceedings volume is the subject of conservation laws. Conservation laws are the most basic model of many continuum processes and for this reason they govern the motion of fluids, solids, and plasma. They are basic to the understanding of more complex modeling issues such as multiphase flow, chemically reacting flow, and non equilibrium thermodynamics. Equations of this type also arise in novel and unexpected areas such as the pattern recognition and image processing problem of edge enhancement and detection. The articles in this volume address the entire range of the study of conservation laws, including the fundamental mathematical theory, familiar and novel applications, and the numerical problem of finding effective computational algorithms for the solution of these problems.

Surveys in Applied Mathematics, Mark I. Freidlin, Sergey Greder, John K. Hunter, Andrew Marchenko, Leonid Pastur, 2012-12-06. Volume 2 offers three in depth articles covering significant areas in applied mathematics research. Chapters feature numerous illustrations, extensive background material, and technical details, and abundant examples. The authors analyze nonlinear front propagation for a large class of semilinear partial differential equations, using probabilistic methods, examine wave localization phenomena in one dimensional random media, and offer an extensive introduction to certain model equations for nonlinear wave phenomena.

SIAM Journal on Scientific Computing, 1998.

Geometrical Optics and Related Topics, Ferruccio Colombini, Nicolas Lerner, 2012-12-06. This book contains fourteen research papers which are expanded versions of conferences given at a meeting held in September 1996 in Cortona, Italy. The topics include blowup questions for quasilinear equations in two dimensions, time decay of waves in LP, uniqueness results for systems of conservation laws in one dimension, concentration effects for critical nonlinear wave

equations diffraction of nonlinear waves propagation of singularities in scattering theory caustics for semi linear oscillations Other topics linked to microlocal analysis are Sobolev embedding theorems in Weyl Hormander calculus local solvability for pseudodifferential equations hypoellipticity for highly degenerate operators The book also contains a result on uniqueness for the Cauchy problem under partial analyticity assumptions and an article on the regularity of solutions for characteristic initial boundary value problems On each topic listed above one will find new results as well as a description of the state of the art Various methods related to nonlinear geometrical optics are a transversal theme of several articles Pseudodifferential techniques are used to tackle classical PDE problems like Cauchy uniqueness We are pleased to thank the speakers for their contributions to the meeting Serge Alinhac Mike Beals Alberto Bressan Jean Yves Chemin Christophe Cheverry Daniele Del Santo Nils Dencker Patrick Gerard Lars Hormander John Hunter Richard Melrose Guy Metivier Yoshinori Morimoto and Tatsuo Nishitani The meeting was made possible in part by the financial support of a European commission program Human capital and mobility CHRX CT94 044 *Journal of analysis and its applications*, 1982 **Hyperbolic Problems: Theory, Numerics, Applications** Rolf Jeltsch, Michael Fey, 2012-12-06 *An Analysis of Piecewise Linear Interface Reconstruction Algorithms for Volume-of-fluid Methods* James Edward Pilliod, 1992 **Hyperbolic Problems: Theory, Numerics, Applications. Volume II** Carlos Parés, Manuel J. Castro, Tomás Morales de Luna, María Luz Muñoz-Ruiz, 2024-06-05 The present volume contains a selection of papers from the XVIII International Conference on Hyperbolic Problems Theory Numerics and Applications HYP2022 which was held on June 20-24 2022 in Málaga Spain The goal of this series of conferences is to bring together scientists with interests in the theoretical applied and computational aspects of hyperbolic partial differential equations systems of hyperbolic conservation laws wave equations etc and of related mathematical models The chapters in this volume correspond to selected contributions related to numerical aspects and applications

Hyperbolic Problems: Theory, Numerics, Applications Thomas Y. Hou, Eitan Tadmor, 2012-12-06 The International Conference on Hyperbolic Problems Theory Numerics and Applications was held in CalTech on March 25-30 2002 The conference was the ninth meeting in the bi-annual international series which became one of the highest quality and most successful conference series in Applied mathematics This volume contains more than 90 contributions presented in this conference including plenary presentations by A Bressan P Degond R LeVeque T P Liu B Perthame C W Shu B Sjogreen and S Ukai Reflecting the objective of series the contributions in this volume keep the traditional blend of theory numerics and applications The Hyp2002 meeting placed a particular emphasis on fundamental theory and numerical analysis on multi-scale analysis modeling and simulations and on geophysical applications and free boundary problems arising from materials science and multi-component fluid dynamics The volume should appeal to researchers students and practitioners with general interest in time dependent problems governed by hyperbolic equations *Hamiltonian Dynamical Systems* H.S. Dumas, K.R. Meyer, D.S. Schmidt, 2012-12-06 From its origins nearly two centuries ago Hamiltonian dynamics has grown to

embrace the physics of nearly all systems that evolve without dissipation as well as a number of branches of mathematics some of which were literally created along the way This volume contains the proceedings of the International Conference on Hamiltonian Dynamical Systems its contents reflect the wide scope and increasing influence of Hamiltonian methods with contributions from a whole spectrum of researchers in mathematics and physics from more than half a dozen countries as well as several researchers in the history of science With the inclusion of several historical articles this volume is not only a slice of state of the art methodology in Hamiltonian dynamics but also a slice of the bigger picture in which that methodology is imbedded

Hyperbolic Problems: Theory, Numerics, Applications. Volume I Carlos Parés, Manuel J. Castro, Tomás Morales de Luna, María Luz Muñoz-Ruiz, 2024-05-27 The present volume contains a selection of papers from the XVIII International Conference on Hyperbolic Problems Theory Numerics and Applications HYP2022 which was held on June 20 24 2022 in M laga Spain The goal of this series of conferences is to bring together scientists with interests in the theoretical applied and computational aspects of hyperbolic partial differential equations systems of hyperbolic conservation laws wave equations etc and of related mathematical models The chapters in this volume correspond to some of the plenary lectures and to selected contributions related to theoretical aspects

AIAA 22nd Fluid Dynamics, Plasma Dynamics & Lasers Conference: 91-1652 - 91-1698, 1991

Nonlinear Conservation Laws and Applications Alberto Bressan, Gui-Qiang G. Chen, Marta Lewicka, Dehua Wang, 2011-04-19 This volume contains the proceedings of the Summer Program on Nonlinear Conservation Laws and Applications held at the IMA on July 13 31 2009 Hyperbolic conservation laws is a classical subject which has experienced vigorous growth in recent years The present collection provides a timely survey of the state of the art in this exciting field and a comprehensive outlook on open problems Contributions of more theoretical nature cover the following topics global existence and uniqueness theory of one dimensional systems multidimensional conservation laws in several space variables and approximations of their solutions mathematical analysis of fluid motion stability and dynamics of viscous shock waves singular limits for viscous systems basic principles in the modeling of turbulent mixing transonic flows past an obstacle and a fluid dynamic approach for isometric embedding in geometry models of nonlinear elasticity the Monge problem and transport equations with rough coefficients In addition there are a number of papers devoted to applications These include models of blood flow self gravitating compressible fluids granular flow charge transport in fluids and the modeling and control of traffic flow on networks

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