Thomas Y. Hou
Eitan Tadmor
Editors

Hyperbolic Problems: Theory, Numerics, Applications

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Raffaela Di Napoli

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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 Sj green 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 emphasize 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 Hyperbolic Problems: Theory, Numerics, Applications Sylvie Benzoni-Gavage,Denis Serre,2008-01-12 This volume contains papers that were presented at HYP2006 the eleventh international Conference on Hyperbolic Problems Theory Numerics and Applications This biennial series of conferences has become one of the most important international events in Applied Mathematics As computers became more and more powerful the interplay between theory modeling and numerical algorithms gained considerable impact and the scope of HYP conferences expanded accordingly **Hyperbolic Problems: Theory, Numerics, Applications** Heinrich Freistühler,Gerald Warnecke,2013-12-01 The Eighth International Conference on Hyperbolic Problems Theory Nu merics Applications was held in Magdeburg Germany from February 27 to March 3 2000 It was attended by over 220 participants from many European countries as well as Brazil Canada China Georgia India Israel Japan Taiwan und the USA There were 12 plenary lectures 22 further invited talks and around 150 con tributed talks in parallel sessions as well as posters The speakers in the parallel sessions were invited to provide a poster in order to enhance the dissemination of information Hyperbolic partial differential equations describe phenomena of material or wave transport in physics biology and engineering especially in the field of fluid mechanics Despite considerable progress the mathematical theory is still strug gling with fundamental open problems concerning systems of such equations in multiple space dimensions For various applications the development of accurate and efficient numerical schemes for computation is of fundamental importance Applications touched in these proceedings concern one phase and multiphase fluid flow phase transitions shallow water dynamics elasticity extended ther modynamics electromagnetism classical and relativistic magnetohydrodynamics cosmology Contributions to the abstract theory of hyperbolic systems deal with viscous and relaxation approximations front tracking and wellposedness stability ofshock profiles and multi shock patterns traveling fronts for transport equations Numerically oriented articles study finite difference finite volume and finite ele ment schemes adaptive multiresolution and artificial

dissipation methods **Hyperbolic Problems: Theory, Numerics, Applications** Rolf Jeltsch,Michael Fey,2012-12-06 **Hyperbolic Problems: Theory, Numerics and Applications** Eitan Tadmor,Jian-Guo Liu,Athanasios E. Tzavaras,2009 The International Conference on Hyperbolic Problems Theory Numerics and Applications HYP2008 was held at the University of Maryland from June 9 13 2008 This book the first in a two part volume contains nineteen papers based on plenary and invited talks presented at the conference **Hyperbolic Problems: Theory, Numerics And Applications (In 2 Volumes)** Tatsien Li,Song Jiang,2012-09-28 This two volume book is devoted to mathematical theory numerics and applications of hyperbolic problems Hyperbolic problems have not only a long history but also extremely rich physical background The development is highly stimulated by their applications to Physics Biology and Engineering Sciences in particular by the design of effective numerical algorithms Due to recent rapid development of computers more and more scientists use hyperbolic partial differential equations and related evolutionary equations as basic tools when proposing new mathematical models of various phenomena and related numerical algorithms This book contains 80 original research and review papers which are written by leading researchers and promising young scientists which cover a diverse range of multi disciplinary topics addressing theoretical modeling and computational issues arising under the umbrella of Hyperbolic Partial Differential Equations It is aimed at mathematicians researchers in applied sciences and graduate students Mathematical Aspects of Numerical Solution of Hyperbolic Systems A.G. Kulikovskii,N.V. Pogorelov,A. Yu. Semenov,2000-12-21 This important new book sets forth a comprehensive description of various mathematical aspects of problems originating in numerical solution of hyperbolic systems of partial differential equations The authors present the material in the context of the important mechanical applications of such systems including the Euler equations of gas dynamics **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 **Hyperbolic Problems** Michael Fey,Rolf Jeltsch,1999 *Hyperbolic Problems* Eitan Tadmor,Jian-Guo Liu,Athanasios E.

Tzavaras,2009 The International Conference on Hyperbolic Problems Theory Numerics and Applications HYP2008 was held at the University of Maryland from June 9 14 2008 This was the twelfth meeting in the bi annual international series of HYP conferences which originated in 1986 at Saint Etienne France and over the last twenty years has become one of the highest quality and most successful conference series in Applied Mathematics The articles in this two part volume are written by leading researchers as well as promising young scientists and cover a diverse range of multi disciplinary topics addressing theoretical modeling and computational issues arising under the umbrella of hyperbolic PDEs This volume will bring readers to the forefront of research in this most active and important area in applied mathematics *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 conversation 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 conversation 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 semi conductor 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 Scientific and Technical Aerospace Reports ,1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Hyperbolic Problems: Theory, Numerics, Applications** Michael Fey,Rolf Jeltsch,1999-04-01 Infotext Kurztext These are the proceedings of the 7th International Conference on Hyperbolic Problems held in Z rich in February 1998 The speakers and contributors have been rigorously selected and present the state of the art in this field The articles both theoretical and numerical encompass a wide range of applications such as nonlinear waves in solids various computational fluid dynamics from small scale combustion to relativistic astrophysical problems multiphase phenomena and geometrical optics Volltext These proceedings contain in two volumes approximately one hundred papers presented at the conference on hyperbolic problems which has focused to a large extent on the laws of nonlinear hyperbolic conservation Two fifths of the papers are devoted to mathematical aspects such as global existence uniqueness asymptotic behavior such as

large time stability stability and instabilities of waves and structures various limits of the solution the Riemann problem and so on Roughly the same number of articles are devoted to numerical analysis for example stability and convergence of numerical schemes as well as schemes with special desired properties such as shock capturing interface fitting and high order approximations to multidimensional systems The results in these contributions both theoretical and numerical encompass a wide range of applications such as nonlinear waves in solids various computational fluid dynamics from small scale combustion to relativistic astrophysical problems multiphase phenomena and geometrical optics **Hyperbolic Problems** Machael Fey,Rolf Jeltsch,1999 *Doklady* ,2004 Mathematical Reviews ,2005 *05-5000 - 05-5036* ,2005

Change Of Time And Change Of Measure (Second Edition) Ole E Barndorff-nielsen,Albert N Shiryaev,2015-05-07 Change of Time and Change of Measure provides a comprehensive account of two topics that are of particular significance in both theoretical and applied stochastics random change of time and change of probability law Random change of time is key to understanding the nature of various stochastic processes and gives rise to interesting mathematical results and insights of importance for the modeling and interpretation of empirically observed dynamic processes Change of probability law is a technique for solving central questions in mathematical finance and also has a considerable role in insurance mathematics large deviation theory and other fields The book comprehensively collects and integrates results from a number of scattered sources in the literature and discusses the importance of the results relative to the existing literature particularly with regard to mathematical finance In this Second Edition a Chapter 13 entitled A Wider View has been added This outlines some of the developments that have taken place in the area of Change of Time and Change of Measure since the publication of the First Edition Most of these developments have their root in the study of the Statistical Theory of Turbulence rather than in Financial Mathematics and Econometrics and they form part of the new research area termed Ambit Stochastics *An Introduction to Recent Developments in Theory and Numerics for Conservation Laws* Dietmar Kröner,Mario Ohlberger,Christian Rohde,1999 The book concerns theoretical and numerical aspects of systems of conservation laws which can be considered as a mathematical model for the flows of inviscid compressible fluids Five leading specialists in this area give an overview of the recent results which include kinetic methods non classical shock waves viscosity and relaxation methods a posteriori error estimates numerical schemes of higher order on unstructured grids in 3 D preconditioning and symmetrization of the Euler and Navier Stokes equations This book will prove to be very useful for scientists working in mathematics computational fluid mechanics aerodynamics and astrophysics as well as for graduate students who want to learn about new developments in this area *Hyperbolic Problems: Theory, Numerics, Applications* Heinrich Freistühler,Gerald Warnecke,2002-01-01 The Eighth International Conference on Hyperbolic Problems Theory Nu merics Applications was held in Magdeburg Germany from February 27 to March 3 2000 It was attended by over 220 participants from many European countries as well as Brazil Canada China Georgia India Israel Japan Taiwan und the USA There were 12

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