Series in Contemporary Applied Mathematics CAM 13

# Nonlinear Conservation Laws, Fluid Systems and Related Topics



**Eitan Tadmor** 

**Some Current Topics on Nonlinear Conservation Laws**, 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 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 L 1 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 d **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concludes with Y Zheng's lecture on incompressible fluid dynamics This collection of lectures represents previously unpublished expository and research results of experts in nonlinear conservation laws and is an excellent reference for researchers and advanced graduate students in the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 **Some Current Topics on Nonlinear Conservation Laws** Ling Hsiao, Zhouping Xin, 2000-01-01 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 copublished with International Press Cambridge MA Lectures on Systems, **Control, and Information** Lei Guo, 2000 This volume presents lectures delivered at a workshop held at the Chinese Academy of Sciences Bejing The following articles are included Nonlinear Systems Control by R Brockett Adaptive Control of Discrete Time Nonlinear Systems with Structural Uncertainties by L L Xie and L Guo Networks and Learning by P R Kumar Mathematical Aspects of the Power Control Problem in Mobile Communication Systems by C W Sung and W S Wong and Brockett's Problem on Nonlinear Filtering Theory by S S T Yau Basic concepts and current research are both presented in this book The volume offers a comprehensive and easy to follow account of many fundamental issues in this diverse field It would be a suitable text for a graduate course on wireless communication Titles in this series are co published with International Press Cambridge MA Mathematical Reviews ,2001 **First International Congress of Chinese** Mathematicians Stephen Shing-Toung Yau, 2001 The International Congress of Mathematicians was an historical event that was held at the Morningside Center of Mathematics of the Chinese Academy of Sciences Beijing It was the first occasion where Chinese mathematicians from all over the world gathered to present their research The Morningside Mathematics lectures were given by R Borcherds J Coates R Graham and D Stroock Other distinguished speakers included J P Bourguignon J J st M Taylor and S L Lee Topics covered in the volume include algebra and representation theory algebraic geometry number theory and automorphic forms Riemannian geometry and geometric analysis mathematical physics topology complex analysis and complex geometry computational mathematics and combinatorics Titles in this series are copublished with International Press Cambridge MA American Book Publishing Record ,2000-07 The British **National Bibliography** Arthur James Wells, 2001 2000, □□ Nonlinear Conservation Laws, Fluid Systems And Related <u>Topics</u> Gui-giang Chen, Chun Liu, Tatsien Li, 2009-06-12 This book is a collection of lecture notes on Nonlinear Conservation Laws Fluid Systems and Related Topics delivered at the 2007 Shanghai Mathematics Summer School held at Fudan University China by world's leading experts in the field The volume comprises five chapters that cover a range of topics from mathematical theory and numerical approximation of both incompressible and compressible fluid flows kinetic theory and conservation laws to statistical theories for fluid systems Researchers and graduate students who want to work in this field will benefit from this essential reference as each chapter leads readers from the basics to the frontiers of the current research in these areas Numerical Methods for Conservation Laws LEVEQUE, 2013-11-11 These notes developed from a course on the numerical solution of conservation laws first taught at the University of Washington in the fall of 1988 and then at ETH during the following spring The overall emphasis is on studying the mathematical tools that are essential in de veloping analyzing and successfully using numerical methods for nonlinear systems of conservation laws particularly for

problems involving shock waves A reasonable un derstanding of the mathematical structure of these equations and their solutions is first required and Part I of these notes deals with this theory Part II deals more directly with numerical methods again with the emphasis on general tools that are of broad use I have stressed the underlying ideas used in various classes of methods rather than present ing the most sophisticated methods in great detail My aim was to provide a sufficient background that students could then approach the current research literature with the necessary tools and understanding vVithout the wonders of TeX and LaTeX these notes would never have been put together The professional looking results perhaps obscure the fact that these are indeed lecture notes Some sections have been reworked several times by now but others are still preliminary I can only hope that the errors are not too blatant Moreover the breadth and depth of coverage was limited by the length of these courses and some parts are rather sketchy **Numerical Methods for Conservation** Laws Randall J. LeVegue, 1990-01-01 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 **Some Topics on Nonlinear Conservation Laws** Ben Duan, 2007

Kinetic Formulation of Conservation Laws B. Perthame,2002-12-05 Written by a well known expert in the field the focus of this book is on an innovative mathematical and numerical theory which applies to classical models of physics such as shock waves and balance laws The text is based on early works in common with P L Lions field medalist Hyperbolic and Viscous Conservation Laws Tai-Ping Liu,2000-01-01 Here is an in depth up to date analysis of wave interactions for general systems of hyperbolic and viscous conservation laws This self contained study of shock waves explains the new wave phenomena from both a physical and a mathematical standpoint The analysis is useful for the study of various physical situations including nonlinear elasticity magnetohydrodynamics multiphase flows combustion and classical gas dynamics shocks The central issue throughout the book is the understanding of nonlinear wave interactions Mathematical Topics In Nonlinear Kinetic Theory Nicola Bellomo, Andrzej Palczewski, Giuseppe Toscani, 1989-01-01 This book has the aim of dealing with the Nonlinear

evolution problems related to the spatially dependent Boltzmann and Enskog equations Nonlinear Stability of Shock Waves for Viscous Conservation Laws Tai-Ping Liu,1985-12-31 A Nonlinear Nonlocal Multi-dimensional Conservation Law University of Minnesota. Institute for Mathematics and Its Applications, Jianhua Zhang, 1995 Approximate Solutions of Nonlinear Conservation Laws Eitan Tadmor, 1997

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