

Constantine M. Dafermos

Hyberbolic Conservation Laws in Continuum Physics

Second Edition

With 38 Figures

 Springer

Hyberbolic Conservation Laws In Continuum Physics

Giuseppe Maria Coclite



Hyberbolic Conservation Laws In Continuum Physics:

Hyperbolic Conservation Laws in Continuum Physics Constantine M. Dafermos, 2009-12-12 The aim of this work is to present a broad overview of the theory of hyperbolic conservation laws with emphasis on its genetic relation to classical continuum physics It was originally published a decade ago and a second revised edition appeared in 2005 It is a testament to the vitality of the field that in order to keep up with recent developments it has become necessary to prepare a substantially expanded and updated new edition A new chapter has been added recounting the exciting recent developments in classical open problems in compressible fluid flow Still another addition is an account of the early history of the subject which had an interesting multigenerational childhood Furthermore a substantial portion of the original text has been reorganized so as to streamline the exposition update the information and enrich the collection of examples In particular Chapter V has been completely revised The bibliography has been updated and expanded as well now comprising over two hundred titles The background scope and plan of the book are outlined in the Introduction following this preface Geometric measure theory functional analysis and dynamical systems provide the necessary tools in the theory of hyperbolic conservation laws but to a great extent the analysis employs custom made techniques with strong geometric flavor describing wave propagation and wave interactions This may leave the impression that the area is insular detached from the mainland of partial differential equations

Hyperbolic Conservation Laws in Continuum Physics Constantine M. Dafermos, 2005-08-24 This is a lucid

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surely the most complete exposition in the subject of conservation laws Zentralblatt MATH **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

Scalar Conservation Laws Giuseppe Maria Coclite, 2024-07-10 This book are notes prepared for the PhD courses that the author has been teaching during the last 10 years The material available in the already existing literature papers and essays has been collected in this unique text presenting the results with all the details for the reader's convenience fixing a unified notation and providing a consistent framework for the subject These notes cover many of the arguments that usually can be found in high level essays where the proofs are simply sketched and in papers which are not easily available and not always self contained This book is intended for 1 PhD students in Mathematics Physics and Mechanical Engineering in order to learn the basic features of nonlinear scalar equations 2 researchers interested in nonlinear hyperbolic PDEs in order to learn the details behind some known and deep results on nonlinear scalar equations 3 teachers of courses on nonlinear PDEs The readers are expected to know the basic measure theory and Sobolev spaces

Numerical Methods for Conservation Laws Jan S. Hesthaven, 2018-01-30 Conservation laws are the mathematical expression of the principles of conservation and provide effective and accurate predictive models of our physical world Although intense research activity during the last decades has led to substantial advances in the development of powerful computational methods for conservation laws their solution remains a challenge and many questions are left open thus it is an active and fruitful area of research *Numerical Methods for Conservation Laws From Analysis to Algorithms* offers the first comprehensive introduction to modern computational methods and their analysis for hyperbolic conservation laws building on intense research activities for more than four decades of development discusses classic results on monotone and finite difference finite volume schemes but emphasizes the successful development of high order accurate methods for hyperbolic conservation laws addresses modern concepts of TVD and entropy stability strongly stable Runge Kutta schemes and limiter based methods before discussing essentially nonoscillatory schemes discontinuous Galerkin methods and spectral methods explores algorithmic aspects of these methods emphasizing one and two dimensional problems and the development and analysis of an extensive range of methods includes MATLAB software with which all main methods and computational results in the book can be reproduced and demonstrates the performance of many methods on a set of benchmark problems to allow direct comparisons Code and other supplemental material will be available online at publication

Handbook of Differential Equations: Evolutionary Equations C.M. Dafermos, Eduard Feireisl, 2004-08-24 This book contains several introductory texts concerning the main directions in the theory of evolutionary partial differential equations The main objective is to present clear rigorous and in

depth surveys on the most important aspects of the present theory The table of contents includes W Arendt Semigroups and evolution equations Calculus regularity and kernel estimates A Bressan The front tracking method for systems of conservation laws E DiBenedetto J M Urbano V Vespri Current issues on singular and degenerate evolution equations L Hsiao S Jiang Nonlinear hyperbolic parabolic coupled systems A Lunardi Nonlinear parabolic equations and systems D Serre L1 stability of nonlinear waves in scalar conservation laws B Perthame Kinetic formulations of parabolic and hyperbolic PDE s from theory to numerics

Continuum Mechanics - Volume III José Merodio, Giuseppe Saccomandi, 2011-11-30 The main objective of continuum mechanics is to predict the response of a body that is under the action of external and or internal influences i e to capture and describe different mechanisms associated with the motion of a body that is under the action of loading A body in continuum mechanics is considered to be matter continuously distributed in space Hence no attention is given to the microscopic atomic structure of real materials although non classical generalized theories of continuum mechanics are able to deal with the mesoscopic structure of matter i e defects cracks dispersive lengths Matter occupies space in time and the response of a body in continuum mechanics is restricted to the Newtonian space time of classical mechanics in this volume Einstein s theory of relativity is not considered In the classical sense loading is considered as any action that changes the motion of the body This includes for instance a change in temperature or a force applied By introducing the concept of configurational forces a load may also be considered as a force that drives a change in the material space for example the opening of a crack Continuum mechanics refers to field descriptions of phenomena that are usually modeled by partial differential equations and from a mathematical point of view require non standard knowledge of non simple technicalities One purpose in this volume has been to present the different subjects in a self contained way for a general audience The organization of the volume is as follows Mathematically to predict the response of a body it is necessary to formulate boundary value problems governed by balance laws The theme of the volume that is an overview of the subject has been written with this idea in mind for beginners in the topic Chapter 1 is an introduction to continuum mechanics based on a one dimensional framework in which simultaneously a more detailed organization of the chapters of this volume is given A one dimensional approach to continuum mechanics in some aspects maybe misleading since the analysis is oversimplified Nevertheless it allows us to introduce the subject through the early basic steps of the continuum analysis for a general audience Chapters 3 4 and 5 are devoted to the mathematical setting of continuum analysis kinematics balance laws and thermodynamics respectively Chapters 6 and 7 are devoted to constitutive equations Chapters 8 and 9 deal with different issues in the context of linear elastostatics and linear elastodynamics and waves respectively for solids Linear Elasticity is a classical and central theory of continuum mechanics Chapter 10 deals with fluids while chapter 11 analyzes the coupled theory of thermoelasticity Chapter 12 deals with nonlinear elasticity and its role in the continuum framework Chapters 13 and 14 are dedicated to different applications of solid and fluid mechanics respectively The rest of the chapters involve some

advanced topics Chapter 15 is dedicated to turbulence one of the main challenges in fluid mechanics Chapter 16 deals with electro magneto active materials a coupled theory Chapter 17 deals with specific ideas of soft matter and chapter 18 deals with configurational forces In chapter 19 constitutive equations are introduced in a general implicit form Well posedness existence time of existence uniqueness continuity of the equations of the mechanics of continua is an important topic which involves sophisticated mathematical machinery Chapter 20 presents different analyses related to these topics Continuum Mechanics is an interdisciplinary subject that attracts the attention of engineers mathematicians physicists etc working in many different disciplines from a purely scientific environment to industrial applications including biology materials science engineering and many other subjects

Waves And Stability In Continuous Media - Proceedings Of The 12th Conference On Wascom 2003 Roberto Monaco, Salvatore Rionero, Tommaso Ruggeri, Sebastiano Pennisi, 2004-04-16 This book contains about 20 invited papers and 40 contributed papers in the research areas of theoretical continuum mechanics kinetic theory and numerical applications of continuum mechanics Collectively these papers give a good overview of the activities and developments in these fields in the last few years The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP ISI Proceedings Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences

Hyperbolic Systems of Conservation Laws Philippe G. LeFloch, 2002-07-01 This book examines the well posedness theory for nonlinear hyperbolic systems of conservation laws recently completed by the author together with his collaborators It covers the existence uniqueness and continuous dependence of classical entropy solutions It also introduces the reader to the developing theory of nonclassical undercompressive entropy solutions The systems of partial differential equations under consideration arise in many areas of continuum physics

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

Princeton Companion to Applied Mathematics Nicholas J. Higham, Mark R.

Dennis, Paul Glendinning, Paul A. Martin, Fadil Santosa, Jared Tanner, 2015-09-09 The must have compendium on applied mathematics This is the most authoritative and accessible single volume reference book on applied mathematics Featuring numerous entries by leading experts and organized thematically it introduces readers to applied mathematics and its uses explains key concepts describes important equations laws and functions looks at exciting areas of research covers modeling and simulation explores areas of application and more Modeled on the popular Princeton Companion to Mathematics this volume is an indispensable resource for undergraduate and graduate students researchers and practitioners in other disciplines seeking a user friendly reference book on applied mathematics Features nearly 200 entries organized thematically and written by an international team of distinguished contributors Presents the major ideas and branches of applied mathematics in a clear and accessible way Explains important mathematical concepts methods equations and applications Introduces the language of applied mathematics and the goals of applied mathematical research Gives a wide range of examples of mathematical modeling Covers continuum mechanics dynamical systems numerical analysis discrete and combinatorial mathematics mathematical physics and much more Explores the connections between applied mathematics and other disciplines Includes suggestions for further reading cross references and a comprehensive index *Analytical and Numerical Aspects of Partial Differential Equations* Etienne Emmrich, Petra Wittbold, 2009 The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences Each volume is associated with a particular conference symposium or workshop These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments methods and applications **Shocks, Singularities and Oscillations in Nonlinear Optics and Fluid Mechanics** Ferruccio Colombini, Daniele Del Santo, David Lannes, 2017-04-25 The book collects the most relevant results from the INdAM Workshop Shocks Singularities and Oscillations in Nonlinear Optics and Fluid Mechanics held in Rome September 14 18 2015 The contributions discuss recent major advances in the study of nonlinear hyperbolic systems addressing general theoretical issues such as symmetrizability singularities low regularity or dispersive perturbations It also investigates several physical phenomena where such systems are relevant such as nonlinear optics shock theory stability relaxation and fluid mechanics boundary layers water waves Euler equations geophysical flows etc It is a valuable resource for researchers in these fields *Waves And Stability In Continuous Media - Proceedings Of The 13th Conference On Wascom 2005* Roberto Monaco, Salvatore Rionero, Tommaso Ruggeri, G Mulone, 2006-03-27 The book contains recent contributions in the field of waves propagation and stability in continuous media In particular the contributions consider discontinuity and shock waves stability in fluid dynamics small parameter problems kinetic theories towards continuum models non equilibrium thermodynamics and numerical applications The volume is the fourth in a series published by World Scientific since 1999 The following distinguished authors contribute to the present book S Bianchini R Caflish C Cercignani Y Choquet Bruhat C Dafermos L Desvillettes V Giovangigli H Gouin I Muller D Parker B Straughan M

Sugiyama and W Weiss **Proceedings, "WASCOM 2005"** Roberto Monaco, Giuseppe Mulone, Salvatore Rionero, Tommaso Ruggeri, 2006 The book contains recent contributions in the field of waves propagation and stability in continuous media In particular the contributions consider discontinuity and shock waves stability in fluid dynamics small parameter problems kinetic theories towards continuum models non equilibrium thermodynamics and numerical applications The volume is the fourth in a series published by World Scientific since 1999 The following distinguished authors contribute to the present book S Bianchini R Caflish C Cercignani Y Choquet Bruhat C Dafermos L Desvillettes V Giovangigli H Gouin I Muller D Parker B Straughan M Sugiyama and W Weiss Contents On Whitham Equations for Camassa Holm S Abenda et al An Operational Description of Stock Markets F Bagarello Vortex Layers in the Small Viscosity Limit R E Caflisch Integration of Partially Integrable Equations R Conte Waves and Vibrations in a Solid of Second Grade M Destrade Multicomponent Reactive Flows V Giovangigli Singularities for Prandtl's Equations G Lo Bosco et al Stability of Solitons of the Zakharov-Okubo-Rubenchik Equation F Oliveira Plain Waves and Vibrations in the Elastic Mixtures M Svanadze Extended Thermodynamics with Consistent Order W Weiss and other papers Readership Academics researchers and post graduates in mathematics and physics European Congress of Mathematics Ari Laptev, 2005 The European Congress of Mathematics held every four years has established itself as a major international mathematical event Following those in Paris 1992 Budapest 1996 and Barcelona 2000 the Fourth European Congress of Mathematics took place in Stockholm Sweden June 27 to July 2 2004 with 913 participants from 65 countries Apart from seven plenary and thirty three invited lectures there were six Science Lectures covering the most relevant aspects of mathematics in science and technology Moreover twelve projects of the EU Research Training Networks in Mathematics and Information Sciences as well as Programmes from the European Science Foundation in Physical and Engineering Sciences were presented Ten EMS Prizes were awarded to young European mathematicians who have made a particular contribution to the progress of mathematics Five of the prizewinners were independently chosen by the 4ECM Scientific Committee as plenary or invited speakers The other five prizewinners gave their lectures in parallel sessions Most of these contributions are now collected in this volume providing a permanent record of so much that is best in mathematics today **Numerical Control: Part A**, 2022-02-15 Numerical Control Part A Volume 23 in the Handbook of Numerical Analysis series highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors Chapters in this volume include Numerics for finite dimensional control systems Moments and convex optimization for analysis and control of nonlinear PDEs The turnpike property in optimal control Structure Preserving Numerical Schemes for Hamiltonian Dynamics Optimal Control of PDEs and FE Approximation Filtration techniques for the uniform controllability of semi discrete hyperbolic equations Numerical controllability properties of fractional partial differential equations Optimal Control Numerics and Applications of Fractional PDEs and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest

release in the Handbook of Numerical Analysis series Updated release includes the latest information on Numerical Control

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 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 some of the plenary lectures and to selected contributions related to theoretical aspects

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