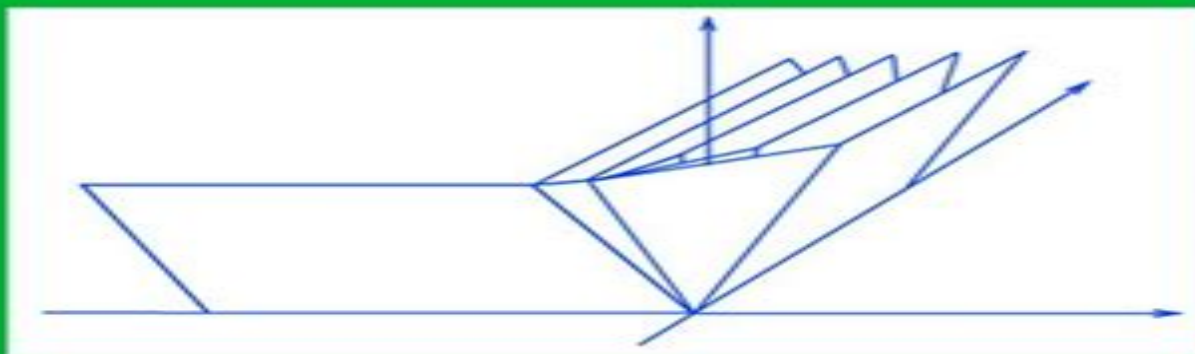


Yuxi Zheng

Systems of Conservation Laws Two-Dimensional Riemann Problems



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Systems Of Conservation Laws Two Dimensional Riemann Problems

Philippe G. LeFloch



Systems Of Conservation Laws Two Dimensional Riemann Problems:

Systems of Conservation Laws Yuxi Zheng, 2001-06-29 This work is based on the lecture notes of the course M742 Topics in Partial Differential Equations which I taught in the Spring semester of 1997 at Indiana University My main intention in this course was to give a concise introduction to solving two dimensional compressible Euler equations with Riemann data which are special Cauchy data This book covers new theoretical developments in the field over the past decade or so Necessary knowledge of one dimensional Riemann problems is reviewed and some popular numerical schemes are presented Multi dimensional conservation laws are more physical and the time has come to study them The theory on basic one dimensional conservation laws is fairly complete providing solid foundation for multi dimensional problems The rich theory on elliptic and parabolic partial differential equations has great potential in applications to multi dimensional conservation laws And faster computers make it possible to reveal numerically more details for theoretical pursuit in multi dimensional problems Overview and highlights Chapter 1 is an overview of the issues that concern us in this book It lists the Euler system and related models such as the unsteady transonic small disturbance pressure gradient and pressureless systems It describes Mach reflection and the von Neumann paradox In Chapters 2-4 which form Part I of the book we briefly present the theory of one dimensional conservation laws which includes solutions to the Riemann problems for the Euler system and general strictly hyperbolic and genuinely nonlinear systems Glimm's scheme and large time asymptotics

Two-dimensional Riemann Problems for Systems of Conservation Laws Tung Chang, Shuli Yang, 1995 **The Two-Dimensional Riemann Problem in Gas Dynamics** Jiequan Li, Tong. Zhang, Shuli Yang, 2022-02-13 The Riemann problem is the most fundamental problem in the entire field of non linear hyperbolic conservation laws Since first posed and solved in 1860 great progress has been achieved in the one dimensional case However the two dimensional case is substantially different Although research interest in it has lasted more than a century it has yielded almost no analytical demonstration It remains a great challenge for mathematicians This volume presents work on the two dimensional Riemann problem carried out over the last 20 years by a Chinese group The authors explore four models scalar conservation laws compressible Euler equations zero pressure gas dynamics and pressure gradient equations They use the method of generalized characteristic analysis plus numerical experiments to demonstrate the elementary field interaction patterns of shocks rarefaction waves and slip lines They also discover a most interesting feature for zero pressure gas dynamics a new kind of elementary wave appearing in the interaction of slip lines a weighted Dirac delta shock of the density function The Two Dimensional Riemann Problem in Gas Dynamics establishes the rigorous mathematical theory of delta shocks and Mach reflection like patterns for zero pressure gas dynamics clarifies the boundaries of interaction of elementary waves demonstrates the interesting spatial interaction of slip lines and proposes a series of open problems With applications ranging from engineering to astrophysics and as the first book to examine the two dimensional Riemann problem this volume

will prove fascinating to mathematicians and hold great interest for physicists and engineers

Hyperbolic Conservation Laws in Continuum Physics Constantine M. Dafermos, 2016-05-26 OLD TEXT 4th Edition to be replaced This is a masterly exposition and an encyclopedic presentation of the theory of hyperbolic conservation laws It illustrates the essential role of continuum thermodynamics in providing motivation and direction for the development of the mathematical theory while also serving as the principal source of applications The reader is expected to have a certain mathematical sophistication and to be familiar with at least the rudiments of analysis and the qualitative theory of partial differential equations whereas prior exposure to continuum physics is not required The target group of readers would consist of a experts in the mathematical theory of hyperbolic systems of conservation laws who wish to learn about the connection with classical physics b specialists in continuum mechanics who may need analytical tools c experts in numerical analysis who wish to learn the underlying mathematical theory and d analysts and graduate students who seek introduction to the theory of hyperbolic systems of conservation laws This new edition places increased emphasis on hyperbolic systems of balance laws with dissipative source modeling relaxation phenomena It also presents an account of recent developments on the Euler equations of compressible gas dynamics Furthermore the presentation of a number of topics in the previous edition has been revised expanded and brought up to date and has been enriched with new applications to elasticity and differential geometry The bibliography also expanded and updated now comprises close to two thousand titles From the reviews of the 3rd edition This is the third edition of the famous book by C M Dafermos His masterly written book is surely the most complete exposition in the subject Evgeniy Panov Zentralblatt MATH A monumental book encompassing all aspects of the mathematical theory of hyperbolic conservation laws widely recognized as the Bible on the subject Philippe G LeFloch Math Reviews , **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 *The Riemann Problem for the Transportation Equations in Gas Dynamics* Wancheng Sheng, Tong Zhang, 1999 In this volume the

one dimensional and two dimensional Riemann problems for the transportation equations in gas dynamics are solved constructively In either the 1 D or 2 D case there are only two kinds of solutions one involves Dirac delta waves and the other involves vacuums which has been merely discussed so far The generalized Rankine Hugoniot and entropy conditions for Dirac delta waves are clarified with viscous vanishing method All of the existence uniqueness and stability for viscous perturbations are proved analytically

Nonlinear Conservation Laws, Fluid Systems and Related Topics Gui-Qiang Chen, 2009 This book is a collection of lecture notes on Nonlinear Conservation Laws Fluid Systems and Related Topics delivered at 2007 Shanghai Mathematics Summer School held at Fudan University China by world s leading experts in the field The volume comprises ve chapters that cover a range of topics from mathematical theory and numerical approximation of both incompressible and compressible uid ows kinetic theory and conservation laws to statistical theories for uid 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

□□□□□□□□□□(□□□□□□□□□□) C. M. Dafermos, 2005

Handbook of Mathematical Fluid Dynamics S. Friedlander, D. Serre, 2007-05-16 This is the fourth volume in a series of survey articles covering many aspects of mathematical fluid dynamics a vital source of open mathematical problems and exciting physics

Advances In Nonlinear Partial Differential Equations And Related Areas: A Volume In Honor Of Prof Xia Gui-qiang Chen, Yanyan Li, Xiping Zhu, Daomin Chao, 1998-12-04 This volume is a collection of research papers on nonlinear partial differential equations and related areas representing many aspects of the most recent developments in these important areas In particular the following are included nonlinear conservation laws semilinear elliptic equations nonlinear hyperbolic equations nonlinear parabolic equations singular limit problems and analysis of exact and numerical solutions Important areas such as numerical analysis relaxation theory multiphase theory kinetic theory combustion theory dynamical systems and quantum field theory are also covered

Introduction to the Mathematical Theory of Compressible Flow Antonín Novotný, Ivan Straskraba, 2004-06-17 This book provides a comprehensive introduction to the mathematical theory of compressible flow describing both inviscid and viscous compressible flow which are governed by the Euler and the Navier Stokes equations respectively The method of presentation allows readers with different backgrounds to focus on various modules of the material either in part or more fully Chapters include detailed heuristic arguments providing motivation for technical aspects that are rigorously presented later on in the text for instance the existence theory for steady and unsteady Navier Stokes equations of isentropic compressible flow and two by two systems of Euler equations in one space dimension These parts are presented in a textbook style with auxiliary material in supporting sections and appendices The book includes a rich index and extensive bibliography thus allowing for quick orientation among the vast collection of literature on the mathematical theory of compressible flow as well as in the book itself

Nonlinear Partial Differential Equations and Related Analysis Gui-Qiang Chen, George Gasper, Joseph W.

Jerome, 2005 The Emphasis Year on Nonlinear Partial Differential Equations and Related Analysis at Northwestern University produced this fine collection of original research and survey articles Many well known mathematicians attended the events and submitted their contributions for this volume Eighteen papers comprise this work representing the most significant advances and current trends in nonlinear PDEs and their applications Topics covered include elliptic and parabolic equations Navier-Stokes equations and hyperbolic conservation laws Important applications are presented from incompressible and compressible fluid mechanics combustion and electromagnetism Also included are articles on recent advances in statistical reliability in modeling simulation level set methods for image processing shock waves free boundaries boundary layers errors in numerical solutions stability instability and singular limits The volume is suitable for researchers and graduate students interested in partial differential equations

Advances in Differential Equations and Mathematical Physics Yulia E. Karpeshina, 2003 This volume presents the proceedings of the 9th International Conference on Differential Equations and Mathematical Physics It contains 29 research and survey papers contributed by conference participants The conference provided researchers a forum to present and discuss their recent results in a broad range of areas encompassing the theory of differential equations and their applications in mathematical physics Papers in this volume represent some of the most interesting results and the major areas of research that were covered including spectral theory with applications to non relativistic and relativistic quantum mechanics including time dependent and random potential resonances many body systems pseudodifferential operators and quantum dynamics inverse spectral and scattering problems the theory of linear and nonlinear partial differential equations with applications in fluid dynamics conservation laws and numerical simulations as well as equilibrium and nonequilibrium statistical mechanics The volume is intended for graduate students and researchers interested in mathematical physics

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 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

Advanced Numerical Approximation of Nonlinear Hyperbolic Equations B. Cockburn, C. Johnson, C.-W. Shu, E. Tadmor, 2006-11-14 This volume contains the texts of the four series of lectures presented by B Cockburn C Johnson C W Shu and E Tadmor at a C I M E Summer School It is aimed at providing a comprehensive and up to date presentation of numerical methods which are nowadays used to solve nonlinear partial differential equations of

hyperbolic type developing shock discontinuities The most effective methodologies in the framework of finite elements finite differences finite volumes spectral methods and kinetic methods are addressed in particular high order shock capturing techniques discontinuous Galerkin methods adaptive techniques based upon a posteriori error analysis **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

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