

Systems of Conservation Laws

Hyperbolicity,
Entropies,
Shock Waves

1

Denis Serre

Systems Of Conservation Laws Vol 1 Hyperbolicity Entropies Shock Waves

**Edwige Godlewski, Pierre-Arnaud
Raviart**



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Systems of Conservation Laws 1 Denis Serre,1999-05-27 Graduate text on mathematical theory of conservation laws and partial differential equations **Systems of Conservation Laws 1** Denis Serre,1999-05-27 Systems of conservation laws arise naturally in physics and chemistry To understand them and their consequences shock waves finite velocity wave propagation properly in mathematical terms requires however knowledge of a broad range of topics This book sets up the foundations of the modern theory of conservation laws describing the physical models and mathematical methods leading to the Glimm scheme Building on this the author then takes the reader to the current state of knowledge in the subject The maximum principle is considered from the viewpoint of numerical schemes and also in terms of viscous approximation Small waves are studied using geometrical optics methods Finally the initial boundary problem is considered in depth Throughout the presentation is reasonably self contained with large numbers of exercises and full discussion of all the ideas This will make it ideal as a text for graduate courses in the area of partial differential equations **Hyperbolic Conservation Laws and Related Analysis with Applications** Gui-Qiang G. Chen,Helge Holden,Kenneth H. Karlsen,2013-09-18 This book presents thirteen papers representing the most significant advances and current trends in nonlinear hyperbolic conservation laws and related analysis with applications Topics covered include a survey on multidimensional systems of conservation laws as well as novel results on liquid crystals conservation laws with discontinuous flux functions and applications to sedimentation Also included are articles on recent advances in the Euler equations and the Navier Stokes Fourier Poisson system in addition to new results on collective phenomena described by the Cucker Smale model The Workshop on Hyperbolic Conservation Laws and Related Analysis with Applications at the International Centre for Mathematical Sciences Edinburgh UK held in Edinburgh September 2011 produced this fine collection of original research and survey articles Many leading mathematicians attended the event and submitted their contributions for this volume It is addressed to researchers and graduate students interested in partial differential equations and related analysis with applications **Finite Volume Methods for Hyperbolic Problems** Randall J. LeVeque,2002-08-26 Publisher Description **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

Acta Numerica 2003: Volume 12 Arie Iserles, 2003-09-15 An annual volume presenting substantive survey articles in numerical mathematics and scientific computing

Handbook of Mathematical Fluid Dynamics S. Friedlander, D. Serre, 2004-10-06 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

Hyperbolic Problems: Theory, Numerics, Applications Heinrich Freistühler, Gerald Warnecke, 2013-12-01 The Eighth International Conference on Hyperbolic Problems Theory Numerics 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 and the USA There were 12 plenary lectures 22 further invited talks and around 150 contributed 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 struggling 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 thermodynamics 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 of shock profiles and multi shock patterns traveling fronts for transport equations Numerically oriented articles study finite difference finite volume and finite element schemes adaptive multiresolution and artificial dissipation methods

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

Hybrid Systems: Computation and Control Joao Hespanha, Ashish Tiwari, 2006-02-27 These are the proceedings of the 9th International Workshop on Hybrid Systems Computation and Control HSCC 2006 March 2006 39 revised papers are presented together with the abstracts of 3 invited talks The focus is on modeling analysis and implementation of dynamic and reactive systems involving both discrete and continuous behaviors Topics addressed include tools for analysis and verification control and optimization modeling engineering applications and new directions in language support and implementation

Harmonic Analysis and Partial Differential Equations Justin Feuto, Bérenger Akon Kpata, 2024-09-12 This proceedings volume collects selected papers presented at the Harmonic Analysis and Applications Workshop held in Abidjan Cote d'Ivoire from May 22-26 2023 Chapters present surveys and recent research results from experts and cover a range of topics at the intersections of classical and abstract harmonic analysis PDEs and numerical analysis

Nonlinear Stability of Finite Volume Methods for Hyperbolic Conservation Laws François Bouchut, 2004-06-25 The schemes are analyzed regarding their nonlinear stability Recently developed entropy schemes are presented A formalism is introduced for source terms

Rational Extended Thermodynamics beyond the Monatomic Gas Tommaso Ruggeri, Masaru Sugiyama, 2015-10-15 This book is dedicated to the recent developments in RET with the aim to explore polyatomic gas dense gas and mixture of gases in non equilibrium In particular we present the theory of dense gases with 14 fields which reduces to the Navier Stokes Fourier classical theory in the parabolic limit Molecular RET with an arbitrary number of field variables for polyatomic gases is also discussed and the theory is proved to be perfectly compatible with the kinetic theory in which the distribution function depends on an extra variable that takes into account a molecule's internal degrees of freedom Recent results on mixtures of gases with multi temperature are presented together with a natural definition of the average temperature The qualitative analysis and in particular the existence of the global smooth solution and the convergence to equilibrium are also studied by taking into account the fact that the differential systems are symmetric hyperbolic Applications to shock and sound waves are analyzed together with light scattering and heat conduction and the results are compared with experimental data Rational extended thermodynamics RET is a thermodynamic theory that is applicable to non equilibrium phenomena It is described by differential hyperbolic systems of balance laws with local constitutive equations As RET has been strictly related to the kinetic theory through the closure method of moment hierarchy associated to the Boltzmann equation the applicability range of the theory has been restricted within rarefied monatomic gases The book represents a valuable resource for applied mathematicians physicists and engineers offering powerful models for potential applications like satellites reentering the atmosphere semiconductors and nano scale phenomena

Measure Theory and Nonlinear Evolution Equations Flavia Smarrazzo, Alberto Tesei, 2022-04-19 This text on measure theory with

applications to partial differential equations covers general measure theory Lebesgue spaces of real valued and vector valued functions different notions of measurability for the latter weak convergence of functions and measures Radon and Young measures capacity A comprehensive discussion of applications to quasilinear parabolic and hyperbolic problems is provided

Multi-dimensional Hyperbolic Partial Differential Equations Sylvie Benzoni-Gavage, Denis Serre, 2007 Authored by leading scholars this comprehensive text presents a view of the multi dimensional hyperbolic partial differential equations with a particular emphasis on problems in which modern tools of analysis have proved useful It is useful to graduates and researchers in both hyperbolic PDEs and compressible fluid dynamics

Hyperbolic Systems of Conservation Laws Philippe G. LeFloch, 2012-12-06 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

Handbook of Numerical Methods for Hyperbolic Problems Remi Abgrall, Chi-Wang Shu, 2016-11-17 Handbook of Numerical Methods for Hyperbolic Problems explores the changes that have taken place in the past few decades regarding literature in the design analysis and application of various numerical algorithms for solving hyperbolic equations This volume provides concise summaries from experts in different types of algorithms so that readers can find a variety of algorithms under different situations and readily understand their relative advantages and limitations Provides detailed cutting edge background explanations of existing algorithms and their analysis Ideal for readers working on the theoretical aspects of algorithm development and its numerical analysis Presents a method of different algorithms for specific applications and the relative advantages and limitations of different algorithms for engineers or readers involved in applications Written by leading subject experts in each field who provide breadth and depth of content coverage

Hyperbolic and Kinetic Models for Self-organised Biological Aggregations Raluca Eftimie, 2019-01-07 This book focuses on the spatio temporal patterns generated by two classes of mathematical models of hyperbolic and kinetic types that have been increasingly used in the past several years to describe various biological and ecological communities Here we combine an overview of various modelling approaches for collective behaviours displayed by individuals cells bacteria that interact locally and non locally with analytical and numerical mathematical techniques that can be used to investigate the spatio temporal patterns produced by said individuals cells bacteria Richly illustrated the book offers a valuable guide for researchers new to the field and is also suitable as a textbook for senior undergraduate or graduate students in mathematics or related disciplines

Classical and Relativistic Rational Extended Thermodynamics of Gases Tommaso Ruggeri, Masaru Sugiyama, 2021-04-22 Rational extended thermodynamics RET is the theory that is applicable to nonequilibrium phenomena out of local equilibrium It is expressed by the hyperbolic system of field equations with local

constitutive equations and is strictly related to the kinetic theory with the closure method of the hierarchies of moment equations. The book intends to present in a systematic way new results obtained by RET of gases in both classical and relativistic cases and it is a natural continuation of the book *Rational Extended Thermodynamics beyond the Monatomic Gas* by the same authors published in 2015. However, this book addresses much wider topics than those of the previous book. Its contents are as follows: RET of rarefied monatomic gases and of polyatomic gases; a simplified RET theory with 6 fields being valid far from equilibrium; RET where both molecular rotational and vibrational modes exist; mixture of gases with multi-temperature. The theory is applied to several typical topics: sound waves, shock waves, etc., and is compared with experimental data. From a mathematical point of view, RET can be regarded as a theory of hyperbolic symmetric systems of which it is possible to conduct a qualitative analysis. The book represents a valuable resource for applied mathematicians, physicists, and engineers, offering powerful models for many potential applications such as reentering satellites into the atmosphere, semiconductors, and nanoscale phenomena.

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, 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.

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