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The Riemann Problem for the Transportation Equations in Gas Dynamics

Wancheng Sheng Tong Zhang



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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 **Riemann Problem for the Transportation Equations in Gas Dynamics** Wancheng Sheng, Tong Zhang, 2014-09-11 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 Handbook of Differential Equations: Evolutionary Equations C.M. Dafermos, Eduard Feireisl, 2005-10-05 The aim of this Handbook is to acquaint the reader with the current status of the theory of evolutionary partial differential equations and with some of its applications Evolutionary partial differential equations made their first appearance in the 18th century in the endeavor to understand the motion of fluids and other continuous media The active research effort over the span of two centuries combined with the wide variety of physical phenomena that had to be explained has resulted in an enormous body of literature Any attempt to produce a comprehensive survey would be futile. The aim here is to collect review articles written by leading experts which will highlight the present and expected future directions of development of the field The emphasis will be on nonlinear equations which pose the most challenging problems today Volume I of this Handbook does focus on the abstract theory of evolutionary equations Volume 2 considers more concrete problems relating to specific applications Together they provide a panorama of this amazingly complex and rapidly developing branch of mathematics 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 Numerical methods for the Navier-Stokes First International Congress of Chinese Mathematicians Stephen eguations Friedrich-Karl Hebeker, 2013-07-29 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 Hyperbolic Problems: Theory, Numerics, Applications Michael Fey, Rolf Jeltsch, 2012-12-06 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 **Hyperbolic Conservation Laws in Continuum Physics** Constantine M. Problems Michael Fey, Rolf Jeltsch, 1999 Dafermos, 2013-06-29 The seeds of Continuum Physics were planted with the works of the natural philosophers of the eighteenth century most notably Euler by the mid nineteenth century the trees were fully grown and ready to yield fruit It was in this envi ronment that the study of gas dynamics gave birth to the theory of quasilinear hyperbolic systems in divergence form commonly called hyperbolic conservation laws and these two subjects have been traveling hand in hand over the past one hundred and fifty years This book aims at presenting the theory of hyper bolic conservation laws from the

standpoint of its genetic relation to Continuum Physics Even though research is still marching at a brisk pace both fields have attained by now the degree of maturity that would warrant the writing of such an exposition In the realm of Continuum Physics material bodies are realized as continuous media and so called extensive quantities such as mass momentum and energy are monitored through the fields of their densities which are related by balance laws and constitutive equations A self contained though skeletal introduction to this branch of classical physics is presented in Chapter II The reader may flesh it out with the help of a specialized text on the subject **Applications of Turbulent and Multiphase Combustion** Kenneth K. Kuo, Ragini Acharya, 2012-07-26 A hands on integrated approach to solving combustion problems in diverse areas An understanding of turbulence combustion and multiphase reacting flows is essential for engineers and scientists in many industries including power generation jet and rocket propulsion pollution control fire prevention and safety and material processing This book offers a highly practical discussion of burning behavior and chemical processes occurring in diverse materials arming readers with the tools they need to solve the most complex combustion problems facing the scientific community today The second of a two volume work Applications of Turbulent and Multiphase Combustion expands on topics involving laminar flames from Professor Kuo's bestselling book Principles of Combustion Second Edition then builds upon the theory discussed in the companion volume Fundamentals of Turbulent and Multiphase Combustion to address in detail cutting edge experimental techniques and applications not covered anywhere else Special features of this book include Coverage of advanced applications such as solid propellants burning behavior and chemical boundary layer flows A multiphase systems approach discussing basic concepts before moving to higher level applications A large number of practical examples gleaned from the authors experience along with problems and a solutions manual Engineers and researchers in chemical and mechanical engineering and materials science will find Applications of Turbulent and Multiphase Combustion an indispensable guide for upgrading their skills and keeping up with this rapidly evolving area It is also an excellent resource for students and professionals in mechanical chemical and aerospace engineering Discrete and **Continuous Dynamical Systems** ,2003 **Advances in Differential Equations** ,2003 Differential and Integral Equations ,2001 Computation of the Semiclassical Limits of the Schrödinger Equation and Related Problems Xiantao Li,2002 Mathematical Reviews ,2005 Journal of the Society for Industrial and Applied Mathematics. Series B: Numerical Analysis Society for Industrial and Applied Mathematics, 2003-02 American Book Publishing Record, 2000 **Proceedings of the ASME Fluids Engineering Division** ,2003 The Two-Dimensional Riemann Problem in Gas

Proceedings of the ASME Fluids Engineering Division, 2003 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.

Computing Methods in Applied Sciences and Engineering V R. Glowinski, Jacques-Louis Lions, Institut national de recherche en informatique et en automatique (France), 1982

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