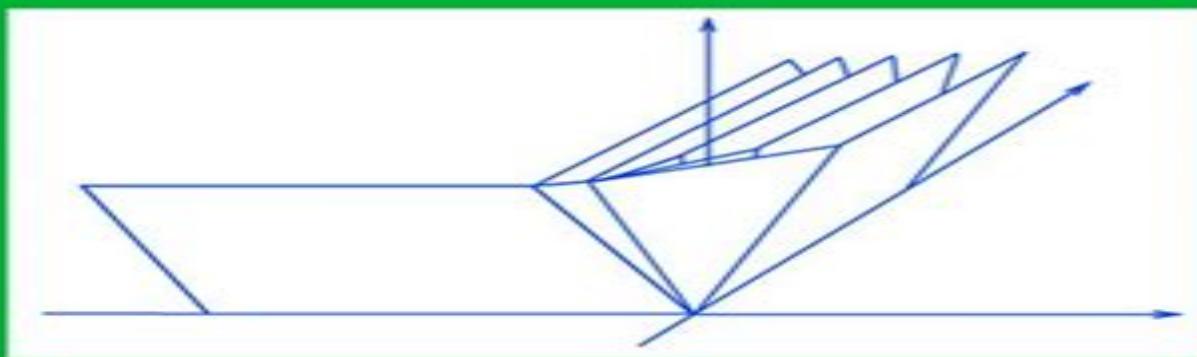


Yuxi Zheng

**Systems of  
Conservation Laws  
Two-Dimensional  
Riemann Problems**



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# Systems Of Conservation Laws Two Dimensional Riemann Problems

**Fumioki Asakura**

## **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 T'ung 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 nonlinear 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 **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 **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 **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 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 ***Discrete and Continuous Dynamical Systems***, 2009 ***SIAM Journal on Scientific Computing***, 2008 **IMACS '91** Robert Vichnevetsky, John James Henry Miller, 1991 **Journal of Differential Equations**, 2002-02 **Mathematical Reviews**, 2003 ***Hyperbolic Problems*** Fumioki Asakura, 2006 **Mathematics of Computation**, 2006 **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 **IMACS '91, 13th World Congress on Computation and Applied Mathematics** Robert Vichnevetsky, John J. H. Miller, 1991 Proceedings Computer Arithmetic Algebra OOP **Computational Methods in Applied Mathematics**, 2006 **Energy Research Abstracts**, 1985 **Comprehensive Dissertation Index**, 1984 Vols for 1973 include the following subject areas Biological sciences Agriculture Chemistry Environmental sciences Health sciences Engineering Mathematics and statistics Earth sciences Physics Education Psychology Sociology Anthropology History Law political science Business economics Geography regional

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