

Nonlinear Stability of Shock Fronts for a Relaxation System in Several Space Dimensions

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Received December 31, 1996

We study the nonlinear asymptotic stability of planar shock front for a class of relaxation systems which approximate scalar conservation laws in several space dimensions time asymptotically. It is shown that if the relaxation system satisfies the subcharacteristic condition, then a traveling wave solution connecting a weak entropy shock is asymptotically stable under small generic perturbations. © 1997 Academic Press.

1. INTRODUCTION AND MAIN THEOREM

It is proposed by Jin and Xin in [JX] to use the relaxation system

$$u_t + \sum_{i=1}^m (v_i)_{x_i} = 0, \quad u \in R^n, \quad v_i \in R^n, \quad (1.1)$$

$$v_{it} + A_i u_{x_i} = -\frac{(v_i - F_i(u))}{\varepsilon}, \quad i = 1, 2, \dots, m \quad (1.2)$$

to approximate scalar multi-dimensional hyperbolic conservation laws of the form

$$u_t + \sum_{i=1}^m F_i(u)_{x_i} = 0, \quad (x_i, t) \in R^1 \times R^+, \quad u \in R^n. \quad (1.3)$$

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Stability Of Multi Dimensional Shock Fronts

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The Stability of Multi-Dimensional Shock Fronts Andrew Majda, 1983 A systematic study of the linearized stability of multi dimensional shock front solutions of a system of hyperbolic conservation laws is developed *Multi-dimensional hyperbolic partial differential equations* Sylvie Benzoni-Gavage, Denis Serre, 2006-11-23 Authored by leading scholars this comprehensive self contained text presents a view of the state of the art in multi dimensional hyperbolic partial differential equations with a particular emphasis on problems in which modern tools of analysis have proved useful Ordered in sections of gradually increasing degrees of difficulty the text first covers linear Cauchy problems and linear initial boundary value problems before moving on to nonlinear problems including shock waves The book finishes with a discussion of the application of hyperbolic PDEs to gas dynamics culminating with the shock wave analysis for real fluids With an extensive bibliography including classical and recent papers both in PDE analysis and in applications mainly to gas dynamics this text will be valuable to graduates and researchers in both hyperbolic PDEs and compressible fluid dynamics **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

Advances in the Theory of Shock Waves Heinrich Freistühler, Anders Szepessy, 2012-12-06 In the field known as the mathematical theory of shock waves very exciting and unexpected developments have occurred in the last few years Joel Smoller and Blake Temple have established classes of shock wave solutions to the Einstein Euler equations of general relativity indeed the mathematical and physical consequences of these examples constitute a whole new area of research The stability theory of viscous shock waves has received a new geometric perspective due to the work of Kevin Zumbrun and collaborators which offers a spectral approach to systems Due to the intersection of point and essential spectrum such an approach had for a long time seemed out of reach The stability problem for in viscid shock waves has been given a novel clear and concise treatment by Guy Metivier and coworkers through the use of paradifferential calculus The L^1 semi group theory

for systems of conservation laws itself still a recent development has been considerably condensed by the introduction of new distance functionals through Tai Ping Liu and collaborators these functionals compare solutions to different data by direct reference to their wave structure The fundamental properties of systems with relaxation have found a systematic description through the papers of Wen An Yong for shock waves this means a first general theorem on the existence of corresponding profiles The five articles of this book reflect the above developments

Multi-dimensional Shock Front for Transonic Flow Equations Enrique Alberto Thomann,1985 *Handbook of Mathematical Fluid Dynamics* S. Friedlander,D. Serre,2004-11-20 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 Mathematical Analysis of Shock Wave Reflection Shuxing Chen,2020-09-04 This book is aimed to make careful analysis to various mathematical problems derived from shock reflection by using the theory of partial differential equations The occurrence propagation and reflection of shock waves are important phenomena in fluid dynamics Comparing the plenty of studies of physical experiments and numerical simulations on this subject this book makes main efforts to develop the related theory of mathematical analysis which is rather incomplete so far The book first introduces some basic knowledge on the system of compressible flow and shock waves then presents the concept of shock polar and its properties particularly the properties of the shock polar for potential flow equation which are first systematically presented and proved in this book Mathematical analysis of regular reflection and Mach reflection in steady and unsteady flow are the most essential parts of this book To give challenges in future research some long standing open problems are listed in the end This book is attractive to researchers in the fields of partial differential equations system of conservation laws fluid dynamics and shock theory

Hyperbolic Systems of Balance Laws Alberto Bressan,Denis Serre,Mark Williams,Kevin Zumbrun,2007-05-26 This volume includes four lecture courses by Bressan Serre Zumbrun and Williams and a Tutorial by Bressan on the Center Manifold Theorem Bressan introduces the vanishing viscosity approach and clearly explains the building blocks of the theory Serre focuses on existence and stability for discrete shock profiles The lectures by Williams and Zumbrun deal with the stability of multidimensional fronts *Stability of Shock Fronts for Multidimensional Conservation Laws* Wlodzimierz Domanski,1989 **Fifth International Congress of Chinese Mathematicians** Lizhen Ji,2012 This two part volume represents the proceedings of the Fifth International Congress of Chinese Mathematicians held at Tsinghua University Beijing in December 2010 The Congress brought together eminent Chinese and overseas mathematicians to discuss the

latest developments in pure and applied mathematics Included are 60 papers based on lectures given at the conference Stability of Shock Fronts for Multidimensional Conservation Laws W. Domanski,1989 Discrete and Continuous Dynamical Systems ,2009 The Existence of Multi-dimensional Shock Fronts Andrew Majda,1983 *Advances in Differential Equations* ,2006 **Methods and Applications of Analysis** ,2005 **Handbook of Differential Equations: Evolutionary Equations** C.M. Dafermos,Eduard Feireisl,2004 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 **Hyperbolic Problems** 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 14 2008 This was the twelfth meeting in the bi annual international series of HYP conferences which originated in 1986 at Saint Etienne France and over the last twenty years has become one of the highest quality and most successful conference series in Applied Mathematics The articles in this two part volume are written by leading researchers as well as promising young scientists and cover a diverse range of multi disciplinary topics addressing theoretical modeling and computational issues arising under the umbrella of hyperbolic PDEs This volume will bring readers to the forefront of research in this most active and important area in applied mathematics **Hokkaido Mathematical Journal** ,1982 *Abstracts of Papers Presented to the American Mathematical Society* American Mathematical Society,2003 *Hyperbolic Problems and Related Topics* Ferruccio Colombini,Tatsuo Nishitani,2003

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