



Quasilinear hyperbolic systems and waves

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Quasilinear Hyperbolic Systems And Waves

W. N. Everitt, B. D. Sleeman



Quasilinear Hyperbolic Systems And Waves:

Quasilinear Hyperbolic Systems and Waves Alan Jeffrey, 1976 The solution to quasilinear first order hyperbolic systems of equations may be interpreted in terms of waves which belong to a certain function class and propagate in some suitable space the work all has a common feature the fact that it adds to the understanding of what may be called nonlinear wave propagation preface **Simple Waves and Their Interactions in Quasilinear Hyperbolic Systems** Alfred

Grundland, 1982 Quasilinear Hyperbolic Systems, Compressible Flows, and Waves Vishnu D. Sharma, 2010-04-29 Filled with practical examples Quasilinear Hyperbolic Systems Compressible Flows and Waves presents a self contained discussion of quasilinear hyperbolic equations and systems with applications It emphasizes nonlinear theory and introduces some of the most active research in the field After linking continuum mechanics and quasilinear partial di **Quasilinear Hyperbolic Systems and Their Applications to Water Waves** John R. Mvungi, 1981 *Quasilinear Hyperbolic Systems And*

Dissipative Mechanisms Ling Hsiao, 1998-02-24 This book introduces the recent developments in the subject of quasilinear hyperbolic systems with dissipation such as frictional damping relaxation viscosity and heat diffusion The mathematical theory behind this subject is emphasized in two ways One emphasis is based on understanding the influence of the dissipation mechanism on the qualitative behavior of solutions such as the nonlinear diffusive phenomena caused by damping and other phenomena including phase transition for the case with viscosity and heat diffusion The second emphasis is to take the systems with the dissipation mechanism as an approach to approximating the corresponding system of quasilinear hyperbolic conservation laws the zero limit relaxation or the zero limit viscosity and the related topic of nonlinear stability of waves Quasilinear Hyperbolic System and Waves Alan Jeffrey, 1976 **Systems of Quasilinear Equations and Their**

Applications to Gas Dynamics Boris Leonidovich Rozhdestvenski_, Nikola_ Nikolaevich I_Anenko, 1983-12-31 This book is essentially a new edition revised and augmented by results of the last decade of the work of the same title published in 1968 by Nauka It is devoted to mathematical questions of gas dynamics Topics covered include Foundations of the Theory of Systems of Quasilinear Equations of Hyperbolic Type in Two Independent Variables Classical and Generalized Solutions of One Dimensional Gas Dynamics Difference Methods for Solving the Equations of Gas Dynamics and Generalized Solutions of Systems of Quasilinear Equations of Hyperbolic Type *Stability and Wave Propagation in Fluids and Solids* Giovanni Galdi, 2014-05-04 The content of the volume is constituted by four articles The first concerns the theory of propagation of plane waves in elastic media The second treats theoretically the linear weakly non linear and non linear stability of flows of a viscous incompressible fluid in a diverging channel The third lecture investigates the mathematical properties of the equations governing the motion of a viscous incompressible second grade fluid such as existence uniqueness of classical solutions and stability of steady state flows The last lecture provides some basic results on wave propagation in continuum models The objective of this book is to emphasize and to compare the various aspects of interest which include the necessary

mathematical background constitutive theories for material of differential type polarized and shock waves and second sound in solids at low temperatures

Hyperbolic Systems of Conservation Laws and the Mathematical Theory of Shock Waves Peter D. Lax, 1973-01-01 This book deals with the mathematical side of the theory of shock waves The author presents what is known about the existence and uniqueness of generalized solutions of the initial value problem subject to the entropy conditions The subtle dissipation introduced by the entropy condition is investigated and the slow decay in signal strength it causes is shown

Wave Phenomena: Modern Theory and Applications C. Rogers, T.B. Moodie, 1984-10-01 This volume contains 35 of the contributions to the international meeting Wave Phenomena Modern Theory and Applications held at the University of Toronto Canada at the end of June 1983

Global Propagation of Regular Nonlinear Hyperbolic Waves Tatsien Li, Wang Libin, 2009-09-01 This monograph describes global propagation of regular nonlinear hyperbolic waves described by first order quasilinear hyperbolic systems in one dimension The exposition is clear concise and unfolds systematically beginning with introductory material and leading to the original research of the authors Topics are motivated with a number of physical examples from the areas of elastic materials one dimensional gas dynamics and waves Aimed at researchers and graduate students in partial differential equations and related topics this book will stimulate further research and help readers further understand important aspects and recent progress of regular nonlinear hyperbolic waves

Ray Methods for Nonlinear Waves in Fluids and Plasmas Marcelo Anile, P Pantano, G Russo, J Hunter, 2021-06-23 Presents in a systematic and unified manner the ray method in its various forms for studying nonlinear wave propagation in situations of physical interest essentially fluid dynamics and plasma physics

Nonlinear Waves in Solids A. Jeffrey, J. Engelbrecht, 2014-05-04 Travelling wave processes and wave motion are of great importance in many areas of mechanics and nonlinearity also plays a decisive role there The basic mathematical models in this area involve nonlinear partial differential equations and predictability of behaviour of wave phenomena is of great importance Beside fluid dynamics and gas dynamics which have long been the traditional nonlinear sciences solid mechanics is now taking an ever increasing account of nonlinear effects Apart from plasticity and fracture mechanics nonlinear elastic waves have been shown to be of great importance in many areas such as the study of impact nondestructive testing and seismology These lectures offer a thorough account of the fundamental theory of nonlinear deformation waves and in the process offer an up to date account of the current state of research in the theory and practice of nonlinear waves in solids

Shallow Water Hydrodynamics W.Y. Tan, 1992-08-17 Within this monograph a comprehensive and systematic knowledge on shallow water hydrodynamics is presented A two dimensional system of shallow water equations is analyzed including the mathematical and mechanical backgrounds the properties of the system and its solution Also featured is a new mathematical simulation of shallow water flows by compressible plane flows of a special virtual perfect gas as well as practical algorithms such as FDM FEM and FVM Some of these algorithms have been utilized in solving the system while others have been utilized in various applied fields An

emphasis has been placed on several classes of high performance difference schemes and boundary procedures which have found wide uses recently for solving the Euler equations of gas dynamics in aeronautical and aerospace engineering. This book is constructed so that it may serve as a handbook for practitioners. It will be of interest to scientists, designers, teachers, postgraduates and professionals in hydraulic, marine and environmental engineering, especially those involved in the mathematical modelling of shallow water bodies.

Nonlinear Functional Analysis and Its Applications S.P.

Singh,2012-12-06 A NATO Advanced Study Institute on Nonlinear Functional Analysis and Its Applications was held in Hotel Villa del Mare Maratea Italy during April 22 May 3 1985 This volume consists of the Proceedings of the Institute These Proceedings include the invited lectures and contributed papers given during the Institute The papers have been refereed The aim of these lectures was to bring together recent and up to date development of the subject and to give directions for future research The main topics covered include degree and generalized degree theory results related to Hamiltonian Systems Fixed Point theory linear and nonlinear Differential and Partial Differential Equations Theory of Nielsen Numbers and applications to Dynamical Systems Bifurcation Theory Hamiltonian Systems Minimax Theory Heat Equations Pendulum Equation Nonlinear Boundary Value Problems and Dirichlet and Neumann problems for elliptic equations and the periodic Dirichlet problem for semilinear beam equations I express my sincere thanks to Professors F E Browder R Conti A Do1d D E Edmunds and J Mawhin members of the Advisory Committee *Ordinary and Partial Differential Equations* W. N. Everitt,B. D. Sleeman,2006-11-15 Wave Propagation Giorgio Ferrarese,2011-06-04 Lectures A Jeffrey Lectures on nonlinear wave propagation Y Choquet Bruhat Ondes asymptotiques G Boillat Urti Seminars D Graffi Sulla teoria dell ottica non lineare G Grioli Sulla propagazione del calore nei mezzi continui T Manacorda Onde nei solidi con vincoli interni T Ruggeri Entropy principle and main field for a non linear covariant system B Straughan Singular surfaces in dipolar materials and possible consequences for continuum mechanics □□□□□□□□□□□□(□□□□□□□□□□) C. M. Dafermos,2005 Waves And Stability In Continuous Media - Proceedings Of The 13th Conference On Wascom 2005 Roberto Monaco,Salvatore Rionero,Tommaso Ruggeri,G Mulone,2006-03-27 The book contains recent contributions in the field of waves propagation and stability in continuous media In particular the contributions consider discontinuity and shock waves stability in fluid dynamics small parameter problems kinetic theories towards continuum models non equilibrium thermodynamics and numerical applications The volume is the fourth in a series published by World Scientific since 1999 The following distinguished authors contribute to the present book S Bianchini R Caflish C Cercignani Y Choquet Bruhat C Dafermos L Desvillettes V Giovangigli H Gouin I Muller D Parker B Straughan M Sugiyama and W Weiss **Differential Equations with Applications to Mathematical Physics** W. F. Ames,1993-03-05 Differential Equations with Applications to Mathematical Physics

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