Lectures On Nonlinear Waves And Shocks

Guy Boillat,Constantin M. Dafermos,Peter D. Lax,Tai-Ping Liu

Lectures On Nonlinear Waves And Shocks:

Lectures on Nonlinear Waves and Shocks Cathleen S. Morawetz,P. S. Datti,1981 **Lectures on nonlinear waves and shocks** Cathleen S. Morawetz,1981 **Lectures on Nonlinear Hyperbolic Differential Equations** Lars Hörmander,1997-07-17 In this introductory textbook a revised and extended version of well known lectures by L H rmander from 1986 four chapters are devoted to weak solutions of systems of conservation laws Apart from that the book only studies classical solutions Two chapters concern the existence of global solutions or estimates of the lifespan for solutions of nonlinear perturbations of the wave or Klein Gordon equation with small initial data Four chapters are devoted to microanalysis of the singularities of the solutions This part assumes some familiarity with pseudodifferential operators which are standard in the theory of linear differential operators but the extension to the more exotic classes of opertors needed in the nonlinear theory is presented in complete detail Lectures on Nonlinear Wave and Shock Cathleen S. Morawetz,1981

Nonlinear Waves & Hamiltonian Systems Ricardo Carretero-González,Dimitrios J. Frantzeskakis,Panayotis G. Kevrekidis,2025-01-28 Nonlinear waves are of significant scientific interest across many diverse contexts ranging from mathematics and physics to engineering biosciences chemistry and finance The study of nonlinear waves is relevant to Bose Einstein condensates the interaction of electromagnetic waves with matter optical fibers and waveguides acoustics water waves atmospheric and planetary scales and even galaxy formation The aim of this book is to provide a self contained introduction to the continuously developing field of nonlinear waves that offers the background the basic ideas and mathematical as well as computational methods while also presenting an overview of associated physical applications Originated from the authors own research activity in the field for almost three decades and shaped over many years of teaching on relevant courses the primary purpose of this book is to serve as a textbook However the selection and exposition of the material will be useful to anyone who is curious to explore the fascinating world of nonlinear waves **Rogue and Shock Waves in Nonlinear Dispersive Media** Miguel Onorato,Stefania Resitori,Fabio Baronio,2016-09-19 This self contained set of lectures addresses a gap in the literature by providing a systematic link between the theoretical foundations of the subject matter and cutting edge applications in both geophysical fluid dynamics and nonlinear optics Rogue and shock waves are phenomena that may occur in the propagation of waves in any nonlinear dispersive medium Accordingly they have been observed in disparate settings as ocean waves in nonlinear optics in Bose Einstein condensates and in plasmas Rogue and dispersive shock waves are both characterized by the development of extremes for the former the wave amplitude becomes unusually large while for the latter gradients reach extreme values Both aspects strongly influence the statistical properties of the wave propagation and are thus considered together here in terms of their underlying theoretical treatment This book offers a self contained graduate level text intended as both an introduction and reference guide for a new generation of scientists working on rogue and shock wave phenomena across a broad range of fields in applied physics and

geophysics   **Shock Waves and Reaction—Diffusion Equations** Joel Smoller,2012-12-06 For this edition a number of typographical errors and minor slip ups have been corrected In addition following the persistent encouragement of Olga Oleinik I have added a new chapter Chapter 25 which I titled Recent Results This chapter is divided into four sections and in these I have discussed what I consider to be some of the important developments which have come about since the writing of the first edition Section I deals with reaction diffusion equations and in it are described both the work of C Jones on the stability of the travelling wave for the Fitz Hugh Nagumo equations and symmetry breaking bifurcations Section II deals with some recent results in shock wave theory The main topics considered are L Tartar s notion of compensated compactness together with its application to pairs of conservation laws and T P Liu s work on the stability of viscous profiles for shock waves In the next section Conley s connection index and connection matrix are described these general notions are useful in con structing travelling waves for systems of nonlinear equations The final sec tion Section IV is devoted to the very recent results of C Jones and R Gardner whereby they construct a general theory enabling them to locate the point spectrum of a wide class of linear operators which arise in stability problems for travelling waves Their theory is general enough to be applica ble to many interesting reaction diffusion systems   *Nonlinear Waves* Peter R. Popivanov,Angela Slavova,2011 Big Nate is the star goalie of his school s soccer team and he is tasked with defending his goal and saving the day against Jefferson Middle School their archrival   **Mathematics of Complexity and Dynamical Systems** Robert A. Meyers,2011-10-05 Mathematics of Complexity and Dynamical Systems is an authoritative reference to the basic tools and concepts of complexity systems theory and dynamical systems from the perspective of pure and applied mathematics Complex systems are systems that comprise many interacting parts with the ability to generate a new quality of collective behavior through self organization e g the spontaneous formation of temporal spatial or functional structures These systems are often characterized by extreme sensitivity to initial conditions as well as emergent behavior that are not readily predictable or even completely deterministic The more than 100 entries in this wide ranging single source work provide a comprehensive explication of the theory and applications of mathematical complexity covering ergodic theory fractals and multifractals dynamical systems perturbation theory solitons systems and control theory and related topics Mathematics of Complexity and Dynamical Systems is an essential reference for all those interested in mathematical complexity from undergraduate and graduate students up through professional researchers   **Nonlinear Waves in Real Fluids** A. Kluwick,2014-05-04 The study of materials which exhibit new and unconventional properties is of central importance for the devel opment of advanced and refined technologies in many fields of engineering science In this connection there has been a rapidly growing interest in real fluid effects on wave phenomena in the past few years A prominent example is provided by Bethe Zel dovich Thompson BZT fluids which have the distinguishing feature that they exhibit negative nonlinearity over a finite range of temperature and pressures in the pure vapour phase However two phase flows with and without phase change

are an even richer source of new unexpected and previously thought impossible phenomena Topics covered by this volume include waves in gases near the critical point waves in retrograde fluids temperature waves in superfluid helium and density waves in suspensions of particles in liquids Clearly the aim of the various contributions is twofold First they are intended to provide scientists and engineers working in these and related areas with an overview of various new physical phenomena as for example expansion shocks sonic shocks shock splitting evaporation and liquafaction shocks and the experimental techniques needed to study these phenomena Second an attempt is made to discuss aspects of their mathematical modeling with special emphasis on properties which these phenomena have in common **Shock Formation in Small-Data Solutions to 3D Quasilinear Wave Equations** Jared Speck,2016-12-07 In 1848 James Challis showed that smooth solutions to the compressible Euler equations can become multivalued thus signifying the onset of a shock singularity Today it is known that for many hyperbolic systems such singularities often develop However most shock formation results have been proved only in one spatial dimension Serge Alinhac s groundbreaking work on wave equations in the late 1990s was the first to treat more than one spatial dimension In 2007 for the compressible Euler equations in vorticity free regions Demetrios Christodoulou remarkably sharpened Alinhac s results and gave a complete description of shock formation In this monograph Christodoulou s framework is extended to two classes of wave equations in three spatial dimensions It is shown that if the nonlinear terms fail to satisfy the null condition then for small data shocks are the only possible singularities that can develop Moreover the author exhibits an open set of small data whose solutions form a shock and he provides a sharp description of the blow up These results yield a sharp converse of the fundamental result of Christodoulou and Klainerman who showed that small data solutions are global when the null condition is satisfied Readers who master the material will have acquired tools on the cutting edge of PDEs fluid mechanics hyperbolic conservation laws wave equations and geometric analysis <u>History of Shock Waves, Explosions and Impact</u> Peter O. K. Krehl,2008-09-24 This unique and encyclopedic reference work describes the evolution of the physics of modern shock wave and detonation from the earlier and classical percussion The history of this complex process is first reviewed in a general survey Subsequently the subject is treated in more detail and the book is richly illustrated in the form of a picture gallery This book is ideal for everyone professionally interested in shock wave phenomena

The Formation of Shocks in 3-dimensional Fluids Demetrios Christodoulou,2007 The equations describing the motion of a perfect fluid were first formulated by Euler in 1752 These equations were among the first partial differential equations to be written down but after a lapse of two and a half centuries we are still far from adequately understanding the observed phenomena which are supposed to lie within their domain of validity These phenomena include the formation and evolution of shocks in compressible fluids the subject of the present monograph The first work on shock formation was done by Riemann in 1858 However his analysis was limited to the simplified case of one space dimension Since then several deep physical insights have been attained and new methods of mathematical analysis invented Nevertheless the theory of the

formation and evolution of shocks in real three dimensional fluids has remained up to this day fundamentally incomplete This monograph considers the relativistic Euler equations in three space dimensions for a perfect fluid with an arbitrary equation of state The author considers initial data for these equations which outside a sphere coincide with the data corresponding to a constant state Under suitable restriction on the size of the initial departure from the constant state he establishes theorems that give a complete description of the maximal classical development In particular it is shown that the boundary of the domain of the maximal classical development has a singular part where the inverse density of the wave fronts vanishes signalling shock formation The theorems give a detailed description of the geometry of this singular boundary and a detailed analysis of the behavior of the solution there A complete picture of shock formation in three dimensional fluids is thereby obtained The approach is geometric the central concept being that of the acoustical spacetime manifold **Physics of Collisionless Shocks** André Balogh,Rudolf A. Treumann,2013-01-04 The present book provides a contemporary systematic treatment of shock waves in high temperature collisionless plasmas as are encountered in near Earth space and in Astrophysics It consists of two parts Part I develops the complete theory of shocks in dilute hot plasmas under the assumption of absence of collisions among the charged particles when the interaction is mediated solely by the self consistent electromagnetic fields Such shocks are naturally magnetised implying that the magnetic field plays an important role in their evolution and dynamics This part treats subcritical shocks which dissipate flow energy by generating anomalous resistance or viscosity The main emphasis is however on super critical shocks where the anomalous dissipation is insufficient to retard the upstream flow These shocks depending on the direction of the upstream magnetic field are distinguished as quasi perpendicular and quasi parallel shocks which exhibit different behaviours reflecting particles back upstream and generating high electromagnetic wave intensities Particle acceleration and turbulence at such shocks become possible and important Part II treats planetary bow shocks and the famous Heliospheric Termination shock as examples of two applications of the theory developed in part I *Recent Mathematical Methods in Nonlinear Wave Propagation* Guy Boillat,Constantin M. Dafermos,Peter D. Lax,Tai-Ping Liu,2006-11-14 These lecture notes of the courses presented at the first CIME session 1994 by leading scientists present the state of the art in recent mathematical methods in Nonlinear Wave Propagation **Lecture Notes on Numerical Methods for Hyperbolic Equations** Elena Vázquez-Cendón,2011-05-23 This volume contains the lecture notes of the Short Course on Numerical Methods for Hyperbolic Equations Faculty of Mathematics University of Santiago de Compostela Spain 2 4 July 2011 The course was organized in recognition of Prof Eleuterio Toro s contribution to education and training on numerical methods for partial differential equation *Hyperbolic and Viscous Conservation Laws* Tai-Ping Liu,2000-01-01 An in depth analysis of wave interactions for general systems of hyperbolic and viscous conservation laws **Theory, Numerics and Applications of Hyperbolic Problems II** Christian Klingenberg,Michael Westdickenberg,2018-06-27 The second of two volumes this edited proceedings book features research

presented at the XVI International Conference on Hyperbolic Problems held in Aachen Germany in summer 2016 It focuses on the theoretical applied and computational aspects of hyperbolic partial differential equations systems of hyperbolic conservation laws wave equations etc and of related mathematical models PDEs of mixed type kinetic equations nonlocal or and discrete models found in the field of applied sciences   Lectures on nonlinear waves and shocks : lectures delivered at the Indian Institute of Science, Bangalore under the T.I.F.R. - I.I.SC. Programme in Applications of Mathematics Cathleen S. Morawetz,1981   **Hyperbolic Problems: Contributed talks** Eitan Tadmor,Jian-Guo Liu,Athanasios E. Tzavaras,2009-12-15 The International Conference on Hyperbolic Problems Theory Numerics and Applications HYP2008 was held at the University of Maryland from June 9 13 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 This book the second in a two part volume contains more than sixty articles based on contributed talks given at the conference The articles 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

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