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*Hilary Ockendon
John R. Ockendon*

TEXTS IN APPLIED MATHEMATICS

Waves and Compressible Flow



Springer

Waves Compressible Texts Applied Mathematics

DJ Losen



Waves Compressible Texts Applied Mathematics:

Waves and Compressible Flow Hilary Ockendon, John R. Ockendon, 2016-01-21 Now in its second edition this book continues to give readers a broad mathematical basis for modelling and understanding the wide range of wave phenomena encountered in modern applications New and expanded material includes topics such as elastoplastic waves and waves in plasmas as well as new exercises Comprehensive collections of models are used to illustrate the underpinning mathematical methodologies which include the basic ideas of the relevant partial differential equations characteristics ray theory asymptotic analysis dispersion shock waves and weak solutions Although the main focus is on compressible fluid flow the authors show how intimately gasdynamic waves are related to wave phenomena in many other areas of physical science Special emphasis is placed on the development of physical intuition to supplement and reinforce analytical thinking Each chapter includes a complete set of carefully prepared exercises making this a suitable textbook for students in applied mathematics engineering and other physical sciences Reviews of the first edition This book is an introduction to the theory of linear and nonlinear waves in fluids including the theory of shock waves is extraordinarily accurate and free of misprints I enjoyed reading this book most attractive and enticing appearance and I am certain that many readers who browse through it will wish to buy a copy The exercises are excellent A beginner who worked through these exercises would not only enjoy himself or herself but would rapidly acquire mastery of techniques used in JFM and many other journals C J Chapman Journal of Fluid Mechanics Vol 521 2004 The book targets a readership of final year undergraduates and first year graduates in applied mathematics In the reviewer's opinion it is very well designed to catch the student's interest while every chapter displays essential features in some important area of fluid dynamics Additionally students may practice by solving 91 exercises This volume is mainly devoted to inviscid flows The book is very well written Denis Serre Mathematical Reviews 2004 Introduction to PDEs and Waves for the Atmosphere and Ocean Andrew Majda, 2003-01-01 Written by a leading specialist in the area of atmosphere ocean science AOS the book presents an excellent introduction to this important topic The goals of these lecture notes based on courses presented by the author at the Courant Institute of Mathematical Sciences are to introduce mathematicians to the fascinating and important area of atmosphere ocean science AOS and conversely to develop a mathematical viewpoint on basic topics in AOS of interest to the disciplinary AOS community ranging from graduate students to researchers The lecture notes emphasize the serendipitous connections between applied mathematics and geophysical flows in the style of modern applied mathematics where rigorous mathematical analysis as well as asymptotic qualitative and numerical modeling all interact to ease the understanding of physical phenomena Reading these lecture notes does not require a previous course in fluid dynamics although a serious reader should supplement these notes with material such The book is intended for graduate students and researchers working in interdisciplinary areas between mathematics and AOS It is excellent for supplementary course reading or independent study *Rundbrief der Gesellschaft*

fur Angewandte Mathematik und Mechanik Gesellschaft für Angewandte Mathematik und Mechanik, 2002 **Applied Mechanics Reviews** ,1973 *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 A Short Treatise on Shock Waves and Equations of State Yun K. Huang, 2002 Huang formerly US Ballistic Research Laboratory Aberdeen Proving Ground presents a monograph on the fundamentals of shock wave phenomena and related equations of state Shock waves in various environments are covered and special topics include shock tubes hypervelocity impact shaped charge jet penetration cosmic and isothermal shocks and shock wave phenomenon in traffic jams Quarterly of Applied Mathematics ,1955 **Previews of Heat and Mass Transfer** ,1995 **Mathematical Reviews** ,2004 Discrete and Continuous Dynamical Systems ,2006 AIAA Journal American Institute of Aeronautics and Astronautics, 2004 **Forthcoming Books** Rose Arny, 1992 Current Trends in Industrial and Applied Mathematics Pammy Manchanda, 2002 Contributed seminar articles with reference to India **The Theory of Transonic Flow** Karl Gottfried Guderley, 1962 **Aerospace Engineering Index** ,1958 **A Modern Introduction to the Mathematical Theory of Water Waves** Robin Stanley Johnson, 1997-10-28 This text considers classical and modern problems in linear and non linear water wave theory **Journal of Applied Mechanics** ,1975 Publishes original research in all branches of mechanics including aerodynamics aeroelasticity boundary layers computational mechanics constitutive modeling of materials dynamics elasticity flow and fracture heat transfer hydraulics impact internal flow mechanical properties of materials micromechanics plasticity stress analysis structures thermodynamics turbulence vibration and wave propagation **Choice** ,2005 **Books to Come** R.R. Bowker Company, 1959 **Aeronautical Engineering Review** ,1957

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