



RAY METHODS FOR NONLINEAR WAVES IN FLUIDS AND PLASMAS

A. M. ANILE, J. K. HUNTER, P. PANTANO
and G. RUSSO



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Ray Methods For Nonlinear Waves In Fluid And Plasmas

**Marcelo Anile, P Pantano, G Russo, J
Hunter**



Ray Methods For Nonlinear Waves In Fluid And Plasmas:

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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

Subsurface Fluid Flow and Imaging Donald Wyman Vasco,Akhil Datta-Gupta,2016-07-21 This book introduces methodologies for subsurface imaging based upon asymptotic and trajectory based methods for modeling fluid flow transport and deformation It describes trajectory based imaging from its mathematical formulation through the construction and solution of the imaging equations to the assessment of the accuracy and resolution associated with the image Unique in its approach it provides a unified framework for the complete spectrum of physical phenomena from wave like hyperbolic problems to diffusive parabolic problems and non linear problems of mixed character The practical aspects of imaging particularly efficient and robust methods for updating high resolution geologic models using fluid flow transport and geophysical data are emphasized throughout the book Complete with online software applications and examples that enable readers to gain hands on experience this volume is an invaluable resource for graduate level courses as well as for academic researchers and industry practitioners in the fields of geoscience hydrology and petroleum and environmental engineering

Quantitative Information Fusion for Hydrological Sciences Xing Cai,T.-C. Jim Yeh,2008-01-03 In this rapidly evolving world of knowledge and technology do you ever wonder how hydrology is catching up Here two highly qualified scientists edit a volume that takes the angle of computational hydrology and envision one of the science s future directions namely the quantitative integration of high quality hydrologic field data with geologic hydrologic chemical atmospheric and biological information to characterize and predict natural systems in hydrological sciences Applied Mechanics Reviews ,1966 *Surveys in Applied Mathematics* Mark I. Freidlin,Sergey Gredeskul,John K. Hunter,Andrew Marchenko,Leonid Pastur,2012-12-06 Volume 2 offers three in depth articles covering significant areas in applied mathematics research Chapters feature numerous illustrations extensive background material and technical details and abundant examples The authors analyze nonlinear front propagation for a large class of semilinear partial differential equations using probabilistic methods examine wave localization phenomena in one dimensional random media and offer an extensive introduction to certain model equations for nonlinear wave phenomena *Optical Solitons* Yuri S. Kivshar,Govind P. Agrawal,2003-06-12 The current research into solitons and their use in fiber optic communications is very important to the future of communications Since the advent of computer networking and high speed data transmission technology people have been striving to develop faster and more reliable communications media Optical pulses tend to broaden over relatively short distances due to dispersion but solitons on the other hand are not as susceptible to the effects of dispersion and although they are subject to losses due to attenuation they can be amplified without being received and re transmitted This book is the first to provide a thorough overview of optical solitons The main purpose of this book is to present the rapidly developing field of Spatial Optical Solitons starting from the basic concepts of light self focusing and self trapping It will introduce the fundamental concepts of the theory of nonlinear waves and solitons in non integrated but physically realistic models of nonlinear optics including their stability and dynamics Also it will summarize a number of important experimental verification of the basic theoretical predictions and concepts covering the observation of self focusing in the earlier days of nonlinear optics and the most recent experimental results on spatial solitons vortex solitons and soliton interaction spiraling Introduces the fundamental concepts of the theory of nonlinear waves and solitons through realistic models Material is based on authors years of experience actively working in and researching the field Summarizes the most important experimental verification of the basic theories predictions and concepts of this ever evolving field from the earliest studies to the most recent **Revue Roumaine de Mathématiques Pures Et Appliquées** ,1994 **Journal of Physics A** ,1997 Focuses on fundamental mathematical and computational methods underpinning physics Relevant to statistical physics chaotic and complex systems classical and quantum mechanics classical and quantum integrable systems and classical and quantum field theory *Mathematical Reviews* ,2007 **Fusion Energy Update** ,1980 **Approximation Methods and Analytical Modeling Using Partial Differential Equations** Tamara Fastovska, Yurii Kolomoitsev, Kateryna Buryachenko, Marina

Chugunova,2025-03-28 Adequate mathematical modeling is the key to success for many real world projects in engineering medicine and other applied areas As soon as an appropriate mathematical model is developed it can be comprehensively analyzed by a broad spectrum of available mathematical methods For example compartmental models are widely used in mathematical epidemiology to describe the dynamics of infectious diseases and in mathematical models of population genetics While the existence of an optimal solution under certain condition can be often proved rigorously this does not always mean that such a solution is easy to implement in practice Finding a reasonable approximation can in itself be a challenging research problem This Research Topic is devoted to modeling analysis and approximation problems whose solutions exploit and explore the theory of partial differential equations It aims to highlight new analytical tools for use in the modeling of problems arising in applied sciences and practical areas Researchers are invited to submit articles that investigate the qualitative behavior of weak solutions removability conditions for singularities the dependence of the local asymptotic property of these solutions on initial and boundary data and also the existence of solutions Contributors are particularly encouraged to focus on anisotropic models analyzing the preconditions on the strength of the anisotropy and comparing the analytical estimates for the growth behavior of the solutions near the singularities with the observed growth in numerical simulations The qualitative analysis and analytical results should be confirmed by the numerically observed solution behavior

Scientific and Technical Aerospace Reports ,1994 *The Cumulative Book Index* ,1995 A world list of books in the English language Flux-Corrected Transport Dmitri Kuzmin,Rainald Löhner,Stefan Turek,2012-04-02 Addressing students and researchers as well as Computational Fluid Dynamics practitioners this book is the most comprehensive review of high resolution schemes based on the principle of Flux Corrected Transport FCT The foreword by J P Boris and historical note by D L Book describe the development of the classical FCT methodology for convection dominated transport problems while the design philosophy behind modern FCT schemes is explained by S T Zalesak The subsequent chapters present various improvements and generalizations proposed over the past three decades In this new edition recent results are integrated into existing chapters in order to describe significant advances since the publication of the first edition Also 3 new chapters were added in order to cover the following topics algebraic flux correction for finite elements iterative and linearized FCT schemes TVD like flux limiters acceleration of explicit and implicit solvers mesh adaptation failsafe limiting for systems of conservation laws flux corrected interpolation remapping positivity preservation in RANS turbulence models and the use of FCT as an implicit subgrid scale model for large eddy simulations **Energy Research Abstracts** ,1979 **Nuclear Science Abstracts** ,1973

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