RAY METHODS FOR NONLINEAR WAVES IN FLUIDS AND PLASMAS

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



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Léo Pomar

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and petroleum and environmental engineering **Quantitative Information Fusion for Hydrological Sciences** Xing Cai, T.-C. Jim Yeh, 2008-01-12 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 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 Iournal 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 Revue Roumaine de Mathématiques Pures Et Appliquées, 1994

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 Scientific and Technical Aerospace Reports ,1994 solution behavior

Technical Abstract Bulletin Defense Documentation Center (U.S.), 1963

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The

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