



NONLINEAR WAVES IN FLUIDS: RECENT ADVANCES AND MODERN APPLICATIONS

EDITED BY

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Nonlinear Waves In Fluids Recent Advances And Modern Applications

Alexei Cheviakov, Shanghai Maritime University



Nonlinear Waves In Fluids Recent Advances And Modern Applications:

Nonlinear Waves in Fluids: Recent Advances and Modern Applications Roger Grimshaw, 2007-03-23 Although nonlinear waves occur in nearly all branches of physics and engineering there is an amazing degree of agreement about the fundamental concepts and the basic paradigms. The underlying unity of the theory for linearized waves is already well established with the importance of such universal concepts as group velocity and wave superposition. For nonlinear waves the last few decades have seen the emergence of analogous unifying concepts. The pervasiveness of the soliton concept is amply demonstrated by the ubiquity of such models as the Korteweg de Vries equation and the nonlinear Schrodinger equation. Similarly there is a universality in the study of wave-wave interactions whether deterministic or statistical and in the recent developments in the theory of wave-mean flow interactions. The aim of this text is to present the basic paradigms of weakly nonlinear waves in fluids. This book is the outcome of a CISM Summer School held at Udine from September 20-24, 2004. Like the lectures given there, the text covers asymptotic methods for the derivation of canonical evolution equations such as the Korteweg de Vries and nonlinear Schrodinger equations, descriptions of the basic solution sets of these evolution equations and the most relevant and compelling applications. These themes are interlocked and this will be demonstrated throughout the text. The topics address any fluid flow application but there is a bias towards geophysical fluid dynamics reflecting for the most part the areas where many applications have been found. *Nonlinear Ocean Waves and the Inverse Scattering Transform* Alfred Osborne, 2010-04-07 For more than 200 years the Fourier Transform has been one of the most important mathematical tools for understanding the dynamics of linear wave trains. *Nonlinear Ocean Waves and the Inverse Scattering Transform* presents the development of the nonlinear Fourier analysis of measured space and time series which can be found in a wide variety of physical settings including surface water waves, internal waves and equatorial Rossby waves. This revolutionary development will allow hyperfast numerical modelling of nonlinear waves greatly advancing our understanding of oceanic surface and internal waves. Nonlinear Fourier analysis is based upon a generalization of linear Fourier analysis referred to as the inverse scattering transform, the fundamental building block of which is a generalized Fourier series called the Riemann theta function. Elucidating the art and science of implementing these functions in the context of physical and time series analysis is the goal of this book. Presents techniques and methods of the inverse scattering transform for data analysis. Geared toward both the introductory and advanced reader venturing further into mathematical and numerical analysis. Suitable for classroom teaching as well as research. *Analytical Properties of Nonlinear Partial Differential Equations* Alexei Cheviakov, Shanghai Maritime University, 2024-03-22 Nonlinear partial differential equations (PDE) are at the core of mathematical modeling. In the past decades and recent years multiple analytical methods to study various aspects of the mathematical structure of nonlinear PDEs have been developed. Those aspects include C and S integrability, Lagrangian and Hamiltonian formulations, equivalence transformations, local and nonlocal symmetries, conservation laws and more.

Modern computational approaches and symbolic software can be employed to systematically derive and use such properties and where possible construct exact and approximate solutions of nonlinear equations This book contains a consistent overview of multiple properties of nonlinear PDEs their relations computation algorithms and a uniformly presented set of examples of application of these methods to specific PDEs Examples include both well known nonlinear PDEs and less famous systems that arise in the context of shallow water waves and far beyond The book will be of interest to researchers and graduate students in applied mathematics physics and engineering and can be used as a basis for research study reference and applications

IUTAM Symposium on Turbulence in the Atmosphere and Oceans David Dritschel, 2010-12-09 The text of the Persian poet Rumi written some eight centuries ago and reproduced at the beginning of this book is still relevant to many of our pursuits of knowledge not least of turbulence The text illustrates the inability people have in seeing the whole thing the big picture Everybody looks into the problem from his or her own point of view and that leads to disagreement and controversy If we could see the whole thing our understanding would become complete and there would be no controversy The turbulent motion of the atmosphere and oceans at the heart of the observed general circulation is undoubtedly very complex and difficult to understand in its entirety Even bare turbulence without rotation and stratification whose effects are paramount in the atmosphere and oceans still poses great fundamental challenges for understanding after a century of research Rotating stratified turbulence is a relatively new research topic It is also far richer exhibiting a host of distinct wave types interacting in a complicated and often subtle way with long lived coherent structures such as jets or currents and vortices All of this is tied together by basic fluid dynamical nonlinearity and this gives rise to a multitude of phenomena spontaneous wave emission wave induced transport both direct and inverse energy scale cascades lateral and vertical anisotropy fronts and transport barriers anomalous transport in coherent vortices and a very wide range of dynamical and thermodynamical instabilities

Solitary Waves in Fluids R. Grimshaw, 2007 Edited by R H J Grimshaw this book covers the topic of solitary waves in fluids

Without Bounds: A Scientific Canvas of Nonlinearity and Complex Dynamics Ramon G. Rubio, Yuri S. Ryazantsev, Victor M Starov, Guo-Xiang Huang, Alexander P Chetverikov, Paolo Arena, Alex A. Nepomnyashchy, Alberto Ferrero, Eugene G. Morozov, 2013-05-30 Bringing together over fifty contributions on all aspects of nonlinear and complex dynamics this impressive topical collection is both a scientific and personal tribute on the occasion of his 70th birthday by many outstanding colleagues in the broad fields of research pursued by Prof Manuel G Velarde The topics selected reflect the research areas covered by the famous Instituto Pluridisciplinar at the Universidad Complutense of Madrid which he co founded over two decades ago and include fluid physics and related nonlinear phenomena at interfaces and in other geometries wetting and spreading dynamics geophysical and astrophysical flows and novel aspects of electronic transport in anharmonic lattices as well as topics in neurodynamics and robotics

New Nonlinear Phenomena Research Tomas B. Percival, 2008 This new book focuses on recent and significant research on nonlinear or chaotic behaviour which in real

world systems has been reported in electronic circuits and communications systems chemical reactions biological behaviour The applications include solitons integrable systems cellular automata pattern formation qualitative structure and bifurcation theory onset of chaos and turbulence analytic dynamics and transport phenomena Analytical Approach in Nonlinear Dispersive Media Emmanuel Kengne, Wu-Ming Liu, 2025-08-30 This book presents an analytical approach to treating several topics of current interest in the field of nonlinear partial differential equations and their applications to electrical and communications engineering the physics of nonlinear dispersive media as well as the nonlinear wave interactions It treats analytically Ginzburg Landau and wave equations such as higher order nonlinear Schrodinger equations with without dissipative terms Gross Pitaevskii equations with complicated potential terms and cubic quintic Ginzburg Landau equations For solving analytically various problems of mathematical physics in nonlinear dispersive media the book explanatorily and carefully applies several powerful methods drawn from recent leading research articles Special attentions are paid to the modulational instability phenomenon and baseband modulational instability phenomenon in nonlinear dispersive media The theoretical results of this book are supplemented by numerical calculations and graphical illustrations This book is intended for scientific researchers working in the field of nonlinear waves it will be particularly useful for applied mathematicians theoretical physicists as well as electrical and communications engineers *Solitons* Mohamed Atef Helal, 2022-11-12 This newly updated volume of the Encyclopedia of Complexity and Systems Science ECSS presents several mathematical models that describe this physical phenomenon including the famous non linear equation Korteweg de Vries KdV that represents the canonical form of solitons Also there exists a class of nonlinear partial differential equations that led to solitons e g Kadomtsev Petviashvili KP Klein Gordon KG Sine Gordon SG Non Linear Schr dinger NLS Korteweg de Vries Burger s KdVB etc Different linear mathematical methods can be used to solve these models analytically such as the Inverse Scattering Transformation IST Adomian Decomposition Method Variational Iteration Method VIM Homotopy Analysis Method HAM and Homotopy Perturbation Method HPM Other non analytic methods use the computational techniques available in such popular mathematical packages as Mathematica Maple and MATLAB The main purpose of this volume is to provide physicists engineers and their students with the proper methods and tools to solve the soliton equations and to discover the new possibilities of using solitons in multi disciplinary areas ranging from telecommunications to biology cosmology and oceanographic studies **Symmetry, Phase Modulation and Nonlinear Waves** Thomas J. Bridges, 2017-07-03 Bridges studies the origin of Korteweg de Vries equation using phase modulation and its implications in dynamical systems and nonlinear waves Nonlinear Partial Differential Equations for Scientists and Engineers Lokenath Debnath, 2011-10-06 The revised and enlarged third edition of this successful book presents a comprehensive and systematic treatment of linear and nonlinear partial differential equations and their varied and updated applications In an effort to make the book more useful for a diverse readership updated modern examples of applications are chosen from areas of fluid dynamics gas dynamics

plasma physics nonlinear dynamics quantum mechanics nonlinear optics acoustics and wave propagation Nonlinear Partial Differential Equations for Scientists and Engineers Third Edition improves on an already highly complete and accessible resource for graduate students and professionals in mathematics physics science and engineering It may be used to great effect as a course textbook research reference or self study guide [Recent Developments in Theoretical Fluid Mechanics](#) G P Galdi,J. Necas,2023-07-21 Including previously unpublished original research material this comprehensive book analyses topics of fundamental importance in theoretical fluid mechanics The five papers appearing in this volume are centred around the mathematical theory of the Navier Stokes equations incompressible and compressible and certain selected non Newtonian modifications **Recent Progress and Modern Challenges in Applied Mathematics, Modeling and Computational Science** Roderick Melnik,Roman Makarov,Jacques Belair,2017-09-05 This volume is an excellent resource for professionals in various areas of applications of mathematics modeling and computational science It focuses on recent progress and modern challenges in these areas The volume provides a balance between fundamental theoretical and applied developments emphasizing the interdisciplinary nature of modern trends and detailing state of the art achievements in Applied Mathematics Modeling and Computational Science The chapters have been authored by international experts in their respective fields making this book ideal for researchers in academia practitioners and graduate students It can also serve as a reference in the diverse selected areas of applied mathematics modelling and computational sciences and is ideal for interdisciplinary collaborations **Handbook of Fluid Dynamics** Richard W. Johnson,2016-04-06 Handbook of Fluid Dynamics offers balanced coverage of the three traditional areas of fluid dynamics theoretical computational and experimental complete with valuable appendices presenting the mathematics of fluid dynamics tables of dimensionless numbers and tables of the properties of gases and vapors Each chapter introduces a different fluid dynamics topic discusses the pertinent issues outlines proven techniques for addressing those issues and supplies useful references for further research Covering all major aspects of classical and modern fluid dynamics this fully updated Second Edition Reflects the latest fluid dynamics research and engineering applications Includes new sections on emerging fields most notably micro and nanofluidics Surveys the range of numerical and computational methods used in fluid dynamics analysis and design Expands the scope of a number of contemporary topics by incorporating new experimental methods more numerical approaches and additional areas for the application of fluid dynamics Handbook of Fluid Dynamics Second Edition provides an indispensable resource for professionals entering the field of fluid dynamics The book also enables experts specialized in areas outside fluid dynamics to become familiar with the field *Collected Papers in Honor of Yoshihiro Shibata* Tohru Ozawa,2022-11-30 Yoshihiro Shibata has made many significant contributions to the area of mathematical fluid mechanics over the course of his illustrious career including landmark work on the Navier Stokes equations The papers collected here on the occasion of his 70th birthday are written by world renowned researchers and celebrate his decades of outstanding achievements

Proceedings ... Annual Gulf of Mexico Information Transfer Meeting ,1990 **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 *Computational Methods for Fluid-Structure Interaction* Jean-Marie Crolet,Roger Ohayon,1994-04-05 Fluid structure interaction is a new theme of investigation in computational methods covering many applications in both engineering and medical sciences This book deals with various examples of interaction between a fluid and a structure and each author presents for the different problems involved the method which is considered to be the most appropriate *Research in Progress* United States. Army Research Office,1989 Vols for 1977 consist of two parts Chemistry biological sciences engineering sciences metallurgy and materials science issued in the spring and Physics electronics mathematics geosciences issued in the fall Journal of Technical Physics ,2003

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