



Nonlinear Waves: Classical and Quantum Aspects

Edited by

Fatkhulla Kh. Abdullaev and
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Nonlinear Waves Classical And Quantum Aspects

Tom Proulx



Nonlinear Waves Classical And Quantum Aspects:

Nonlinear Waves: Classical and Quantum Aspects Fatkhulla Abdullaev, Vladimir V. Konotop, 2006-03-02 Leading scientists discuss the most recent physical and experimental results in the physics of Bose Einstein condensate theory the theory of nonlinear lattices including quantum and nonlinear lattices and nonlinear optics and photonics Classical and quantum aspects of the dynamics of nonlinear waves are considered The contributions focus on the Gross Pitaevskii equation and on the quantum nonlinear Schrödinger equation Recent experimental results on atomic condensates and hydrogen bonded systems are reviewed Particular attention is given to nonlinear matter waves in periodic potential *Nonlinear Photonics and Novel Optical Phenomena* Zhigang Chen, Roberto Morandotti, 2012-06-27 Nonlinear Photonics and Novel Optical Phenomena contains contributed chapters from leading experts in nonlinear optics and photonics and provides a comprehensive survey of fundamental concepts as well as hot topics in current research on nonlinear optical waves and related novel phenomena The book covers self accelerating airy beams integrated photonics based on high index doped silica glass linear and nonlinear spatial beam dynamics in photonic lattices and waveguide arrays the theory of polariton solitons in semiconductor microcavities and Terahertz waves *Problems of Nonlinear Mechanics and Physics of Materials* Igor V. Andrianov, Arkadiy I. Manevich, Yuri V. Mikhlin, Oleg V. Gendelman, 2018-07-31 This book presents contributions on the current problems in a number of topical areas of nonlinear dynamics and physics written by experts from Russia Ukraine Israel Germany Poland Italy the Netherlands the USA and France The book is dedicated to Professor Leonid I Manevitch an outstanding scholar in the fields of Mechanics of Solids Nonlinear Dynamics and Polymer Physics on the occasion of his 80th birthday Emergent Nonlinear Phenomena in Bose-Einstein Condensates Panayotis G. Kevrekidis, Dimitri J. Frantzeskakis, Ricardo Carretero-González, 2007-12-29 This book written by experts in the fields of atomic physics and nonlinear science covers the important developments in a special aspect of Bose Einstein condensation namely nonlinear phenomena in condensates Topics covered include bright dark gap and multidimensional solitons vortices vortex lattices optical lattices multicomponent condensates mathematical methods rigorous results and the beyond the mean field approach Handbook of Applications of Chaos Theory Christos H. Skiadas, Charilaos Skiadas, 2017-12-19 In addition to explaining and modeling unexplored phenomena in nature and society chaos uses vital parts of nonlinear dynamical systems theory and established chaotic theory to open new frontiers and fields of study Handbook of Applications of Chaos Theory covers the main parts of chaos theory along with various applications to diverse areas Expert contributors from around the world show how chaos theory is used to model unexplored cases and stimulate new applications Accessible to scientists engineers and practitioners in a variety of fields the book discusses the intermittency route to chaos evolutionary dynamics and deterministic chaos and the transition to phase synchronization chaos It presents important contributions on strange attractors self exciting and hidden attractors stability theory Lyapunov exponents and chaotic analysis It explores the state of

the art of chaos in plasma physics plasma harmonics and overtone coupling It also describes flows and turbulence chaotic interference versus decoherence and an application of microwave networks to the simulation of quantum graphs The book proceeds to give a detailed presentation of the chaotic rogue and noisy optical dissipative solitons parhellic like circle and chaotic light scattering and interesting forms of the hyperbolic prism the Poincar disc and foams It also covers numerous application areas from the analysis of blood pressure data and clinical digital pathology to chaotic pattern recognition to economics to musical arts and research

Nonlinear Optical Cavity Dynamics Philippe Grellu, 2015-12-23 By recirculating light in a nonlinear propagation medium the nonlinear optical cavity allows for countless options of light transformation and manipulation In passive media optical bistability and frequency conversion are central figures In active media laser light can be generated with versatile underlying dynamics Emphasizing on ultrafast dynamics the vital arena for the information technology the soliton is a common conceptual keyword thriving into its modern developments with the closely related denominations of dissipative solitons and cavity solitons Recent technological breakthroughs in optical cavities from micro resonators to ultra long fiber cavities have entitled the exploration of nonlinear optical dynamics over unprecedented spatial and temporal orders of magnitude By gathering key contributions by renowned experts this book aims at bridging the gap between recent research topics with a view to foster cross fertilization between research areas and stimulating creative optical engineering design

Advances in Optics: Reviews, Vol. 2 Sergey Yurish, 2018-04-27 Advances in Optics Reviews Book Series is a comprehensive study of the field of optics which provides readers with the most up to date coverage of optics photonics and lasers with a good balance of practical and theoretical aspects Directed towards both physicists and engineers this Book Series is also suitable for audiences focusing on applications of optics The Vol 2 is devoted to lasers and photonics and contains 15 chapters written by 40 authors from 15 countries Algeria Australia Canada China Ecuador Finland France Germany India Mexico Poland Qatar Spain Turkey and USA A clear comprehensive presentation makes these books work well as both a teaching resources and a reference books The book is intended for researchers and scientists in physics and optics in academia and industry as well as postgraduate students

Intelligent Mathematics II: Applied Mathematics and Approximation Theory George A. Anastassiou, Oktay Duman, 2016-03-21 This special volume is a collection of outstanding more applied articles presented in AMAT 2015 held in Ankara May 28 31 2015 at TOBB Economics and Technology University The collection is suitable for Applied and Computational Mathematics and Engineering practitioners also for related graduate students and researchers Furthermore it will be a useful resource for all science and engineering libraries This book includes 29 self contained and well edited chapters that can be among others useful for seminars in applied and computational mathematics as well as in engineering

Mechanics of Time-Dependent Materials and Processes in Conventional and Multifunctional Materials, Volume 3 Tom Proulx, 2025-08-07

Mechanics of Time Dependent Materials and Processes in Conventional and Multifunctional Materials represents one of eight

volumes of technical papers presented at the Society for Experimental Mechanics Annual Conference on Experimental and Applied Mechanics held at Uncasville Connecticut June 13-16 2011 The full set of proceedings also includes volumes on Dynamic Behavior of Materials Mechanics of Biological Systems and Materials MEMS and Nanotechnology Optical Measurements Modeling and Metrology Experimental and Applied Mechanics Thermomechanics and Infra Red Imaging and Engineering Applications of Residual Stress

Progress in Optics Emil Wolf, 2005-10-11 In this volume six review articles which cover a broad range of topics of current interest in modern optics are included The first article by S Saltiel A A Sukhorukov and Y S Kivshar presents an overview of various types of parametric interactions in nonlinear optics which are associated with simultaneous phase matching of several optical processes in quadratic non linear media the so called multi step parametric interactions The second article by H E Tureci H G L Schwefel Ph Jacquod and A D Stone reviews the progress that has been made in recent years in the understanding of modes in wave chaotic systems The next article by C P Search and P Meystre reviews some important recent developments in non linear optics and in quantum optics The fourth article by E Hasman G Biener A Niv and V Kleiner discusses space variant polarization manipulation The article reviews both theoretical analysis and experimental techniques The article which follows by A S Desyatnikov L Torner and Y S Kivshar presents an overview of recent researches on optical vortices and phase singularities of electromagnetic waves in different types of non linear media with emphasis on the properties of vortex solitons The concluding article by K Iwata presents a review of imaging techniques with X rays and visible light in which phase of the radiation that penetrates through a transparent object plays an important part

The Mathematica GuideBook for Symbolics Michael Trott, 2007-04-03 Mathematica is today's most advanced technical computing system It features a rich programming environment two and three dimensional graphics capabilities and hundreds of sophisticated powerful programming and mathematical functions using state of the art algorithms Combined with a user friendly interface and a complete mathematical typesetting system Mathematica offers an intuitive easy to handle environment of great power and utility The Mathematica GuideBook for Symbolics code and text fully tailored for Mathematica 5.1 deals with Mathematica's symbolic mathematical capabilities Structural and mathematical operations on single and systems of polynomials are fundamental to many symbolic calculations and they are covered in considerable detail The solution of equations and differential equations as well as the classical calculus operations differentiation integration summation series expansion limits are exhaustively treated Generalized functions and their uses are discussed In addition this volume discusses and employs the classical orthogonal polynomials and special functions of mathematical physics To demonstrate the symbolic mathematics power a large variety of problems from mathematics and physics are discussed

Fractional Kinetics in Solids Vladimir Vasil'evich Uchaikin, Renat Sibatov, 2013 The standard Markovian transport model based on the Boltzmann equation cannot describe some non equilibrium processes called anomalous that take place in many disordered solids Causes of anomaly lie in non uniformly

scaled fractal spatial heterogeneities in which particle trajectories take cluster form Furthermore particles can be located in some domains of small sizes traps for a long time Estimations show that path length and waiting time distributions are often characterized by heavy tails of the power law type This behavior allows the introduction of time and space derivatives of fractional orders Distinction of path length distribution from exponential is interpreted as a consequence of media fractality and analogous property of waiting time distribution as a presence of memory In this book a novel approach using equations with derivatives of fractional orders is applied to describe anomalous transport and relaxation in disordered semiconductors dielectrics and quantum dot systems A relationship between the self similarity of transport the Levy stable limiting distributions and the kinetic equations with fractional derivatives is established It is shown that unlike the well known Scher Montroll and Arkhipov Rudenko models which are in a sense alternatives to the normal transport model fractional differential equations provide a unified mathematical framework for describing normal and dispersive transport The fractional differential formalism allows the equations of bipolar transport to be written down and transport in distributed dispersion systems to be described The relationship between fractional transport equations and the generalized limit theorem reveals the probabilistic aspects of the phenomenon in which a dispersive to Gaussian transport transition occurs in a time of flight experiment as the applied voltage is decreased and or the sample thickness increased Recent experiments devoted to studies of transport in quantum dot arrays are discussed in the framework of dispersive transport models The memory phenomena in systems under consideration are discussed in the analysis of fractional equations It is shown that the approach based on the anomalous transport models and the fractional kinetic equations may be very useful in some problems that involve nano sized systems These are photon counting statistics of blinking single quantum dot fluorescence relaxation of current in colloidal quantum dot arrays and some others

Electromagnetic Waves Vitaliy Zhurbenko, 2011-06-21 This book is dedicated to various aspects of electromagnetic wave theory and its applications in science and technology The covered topics include the fundamental physics of electromagnetic waves theory of electromagnetic wave propagation and scattering methods of computational analysis material characterization electromagnetic properties of plasma analysis and applications of periodic structures and waveguide components and finally the biological effects and medical applications of electromagnetic fields

Polarons in Advanced Materials Alexandre S. Alexandrov, 2008-01-11 This book first introduces a single polaron and describes recent achievements in analytical and numerical studies of polaron properties in different e ph models It then describes multi polaron physics as well as many key physical properties of high temperature superconductors colossal magnetoresistance oxides conducting polymers and molecular nanowires which were understood with polarons and bipolarons

Trends in General Relativity and Quantum Cosmology Charles V. Benton, 2006 Cosmology deals with the nature of the universe It can be broadly divided into three great ages The first began in the 6th century BC with the Pythagorean concept of a spherical Earth that is part of a universe in which the motions of the planets are governed by the

harmonious relations of natural laws The second began in the 16th century with the Copernican revolution This in turn led into Newton's infinite universe The third began in the early 20th century with Albert Einstein's theory of general relativity and developed into the expanding universe we know today Einstein's general theory of relativity extended the new space and time concepts of the special theory of relativity from the domain of electric and magnetic phenomena to all of physics and particularly to the theory of gravitation By building on Einstein's previous work on special relativity general relativity sought to deal with accelerating frames of reference This in turn led to the principle of equivalence By dealing with accelerating frames of reference general relativity provides astronomers with the best theory to predict the effects of gravity This book examines in detail new and important work in this field

Fractional Derivatives for Physicists and Engineers Vladimir V. Uchaikin, 2025-07-21 This book brings new perspectives in front of the reader dealing with turbulence and semiconductors plasma and thermodynamics mechanics and quantum optics nanophysics and astrophysics The first derivative of a particle coordinate means its velocity the second means its acceleration but what does a fractional order derivative mean Where does it come from how does it work where does it lead to The two volume book written on high didactic level answers these questions The first volume ISBN 978 3 642 33910 3 contains a clear introduction into such a modern branch of analysis as fractional calculus This second volume develops a wide panorama of applications of the fractional calculus to various physical problems This book is addressed to students engineers and physicists specialists in theory of probability and statistics in mathematical modeling and numerical simulations to everybody who doesn't wish to stay apart from the new mathematical methods becoming more and more popular

Quantum Aspects Of Beam Physics 2003 - Proceedings Of The Joint 28th Icfp Advanced Beam Dynamics & Advanced & Novel Accelerators Workshop Pisin Chen, Kevin Reil, 2004-10-14 This proceedings volume of the 3rd International Workshop on Quantum Aspects of Beam Physics presents the latest advances in beam dynamics The frontiers of beam research point to increasingly high energy greater brightness and lower emittance beams with ever increasing particle species These demands have triggered a rapidly growing number of beam phenomena that involve quantum effects In addition to the more established topics this volume covers topics on high energy density particle and photon beams for laboratory astrophysics investigations as well as the application of beam physics expertise to astrophysics studies Other exciting new topics are the physics of ultra cold or condensed beams such as the crystalline beams and the Bose Einstein condensate atom lasers This book will be a valuable source of reference to readers interested in the interdisciplinary frontiers of quantum beam physics that involve beam physics particle physics laser science astrophysics condensed matter physics nuclear and atomic physics The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP ISI Proceedings Index to Scientific Technical Proceedings ISTP CDRom version ISI Proceedings CC Proceedings Engineering Physical Sciences

Superfluid States of Matter Boris V. Svistunov, Egor S. Babaev, Nikolay V. Prokof'ev, 2015-04-15 Covers the State of the Art in Superfluidity and Superconductivity Superfluid States of Matter addresses

the phenomenon of superfluidity superconductivity through an emergent topologically protected constant of motion and covers topics developed over the past 20 years The approach is based on the idea of separating universal classical field superf

Asymptotic Methods in Nonlinear Wave Phenomena Tommaso Ruggeri, Marco Sammartino, 2007 This book brings together several contributions from leading experts in the field of nonlinear wave propagation This field which during the last three decades has seen important breakthroughs from the theoretical point of view has recently acquired increased relevance due to advances in the technology of fluids e g at microscale or nanoscale and the recognition of crucial applications to the understanding of biological phenomena Nonlinear wave theory requires the use of disparate approaches including formal and rigorous asymptotic methods Lie group theory energy methods numerical analysis and bifurcation theory This book presents a unique blend in which different aspects of the theory are enlightened and several real life applications are investigated The book will be a valuable resource for applied scientists interested in some of the most recent advances in the theory and in the applications of wave propagation shock formation nonequilibrium thermodynamics and energy methods

Fractional Kinetics In Space: Anomalous Transport Models Vladimir V Uchaikin, Renat T Sibatov, 2017-12-12 This book is first of its kind describing a new direction in modeling processes taking place in interplanetary and interstellar space magnetic fields plasma cosmic rays etc This method is based on a special mathematical analysis fractional calculus The reader will find in this book clear physical explanation of the fractional approach and will become familiar with basic rules in this calculus and main results obtained in frame of this approach In spite of its profound subject the book is not overloaded by mathematical details It contains many illustrations rich citation and remains accessible to a wide circle of physicists This book is addressed to graduate and postgraduate students young and mature researchers specializing in applications of fractional calculus astrophysics solar terrestrial science and physics of cosmic rays

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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Nonlinear Waves Classical And Quantum Aspects** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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