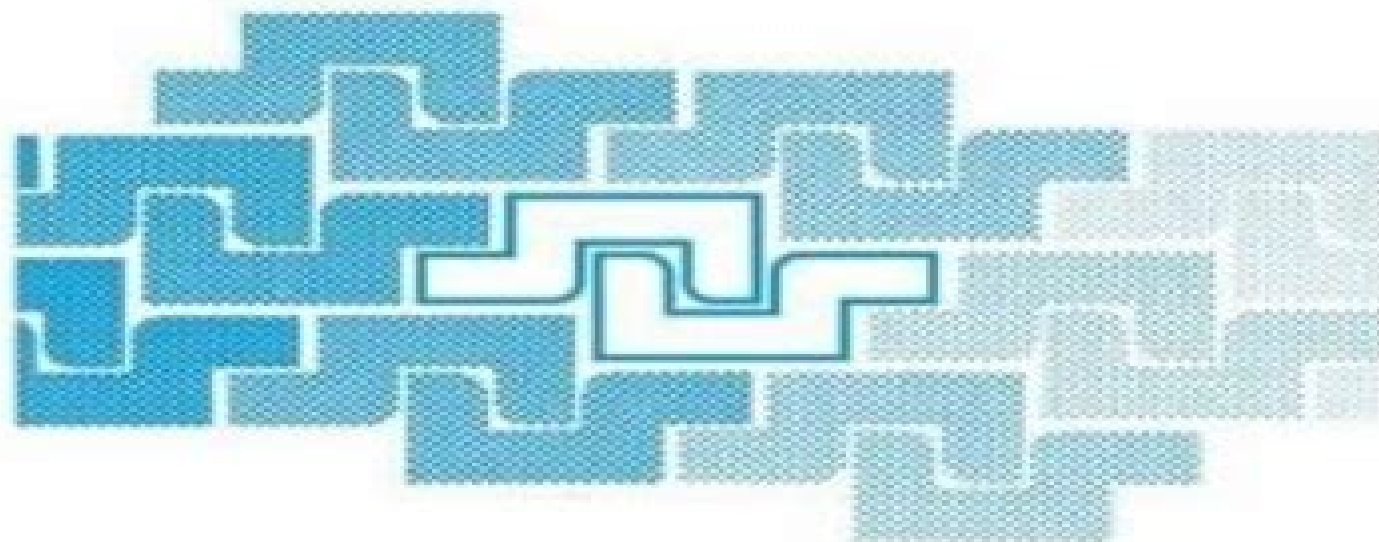




Nonlinear Waves: Classical and Quantum Aspects

Edited by

Fatkhulla Kh. Abdullaev and
Vladimir V. Konotop

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Nonlinear Waves Classical And Quantum Aspects Nato Science Series Ii

**Dumitru Baleanu, Valentina Emilia
Balas, Praveen Agarwal**



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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

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Nonlinear Optical Cavity Dynamics Philippe Grelu, 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

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

Fractional Order Systems and Applications in Engineering Dumitru Baleanu, Valentina Emilia Balas, Praveen Agarwal, 2022-11-17 Fractional Order Systems and Applications in Engineering presents the use of fractional calculus of non integer order in the description and modelling of systems and in a range of control design and practical applications The book covers the fundamentals of fractional calculus together with some analytical and numerical techniques and provides MATLAB codes for the simulation of

fractional order control FOC systems The use of fractional calculus can improve and generalize well established control methods and strategies Many different FOC schemes are presented for control and dynamic systems problems These extend to the challenging control engineering design problems of robust and nonlinear control Practical material relating to a wide variety of applications including among others mechatronics civil engineering irrigation and water management and biological systems is also provided All the control schemes and applications are presented with either system simulation results or real experimental results or both Fractional Order Systems and Applications in Engineering introduces readers to the essentials of FOC and imbues them with a basic understanding of FOC concepts and methods With this knowledge readers can extend their use of FOC in other industrial system applications thereby expanding their range of disciplines by exploiting this versatile new set of control techniques Provides the most recent and up to date developments on the Fractional order Systems and their analyzing process Integrates recent advancements of modeling of real phenomena on Fractional order Systems via different mathematical equations with demonstrated applications in numerous seemingly diverse and widespread fields of science and engineering Provides readers with illustrative examples of how to use the presented theories of Fractional order Systems in specific cases with associated MATLAB code [American Book Publishing Record](#) ,2003 **The British National Bibliography** Arthur James Wells,2004 **Recent Trends in Computational Photonics** Arti Agrawal,Trevor Benson,Richard M. De La Rue,Gregory A. Wurtz,2017-11-01 This book brings together the recent cutting edge work on computational methods in photonics and their applications The latest advances in techniques such as the Discontinuous Galerkin Time Domain method Finite Element Time Domain method Finite Difference Time Domain method as well as their applications are presented Key aspects such as modelling of non linear effects Second Harmonic Generation lasing in fibers including gain nonlinearity in metamaterials the acousto optic effect and the hydrodynamic model to explain electron response in nanoplasmonic structures are included The application areas covered include plasmonics metamaterials photonic crystals dielectric waveguides fiber lasers The chapters give a representative survey of the corresponding area [Photonic Crystal: Fundamentals and Applications](#) (Japan),1972 **Advanced Photonics with Second-Order Optically Nonlinear Processes** A.D. Boardman,L. Pavlov,S. Tanev,2012-12-06 Although it took some time to establish the word photonics is both widely accepted and used throughout the world and a major area of activity concerns nonlinear materials In these the nonlinearity mainly arises from second order or third order nonlinear optical processes A restriction is that second order processes only occur in media that do not possess a centre of symmetry Optical fibres on the other hand being made of silica glass created by fusing SiO molecules are made of material with a centre of z symmetry so the bulk of all processes are governed by third order nonlinearity Indeed optical fibre nonlinearities have been extensively studied for the last thirty years and can be truly hailed as a success story of nonlinear optics In fact the fabrication of such fibres and the exploitation of their nonlinearity is in an advanced stage not least being their capacity to

sustain envelope solitons What then of second order nonlinearity This is also well known for its connection to second harmonic generation It is an immediate concern however to understand how waves can mix and conserve both energy and momentum of the photons involved The problem is that the wave vectors cannot be made to match without a great deal of effort or at least some clever arrangement has to be made a special geometry or crystal arrangement The whole business is called phase matching and an inspection of the state of the art today reveals the subject to be in an advanced state

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