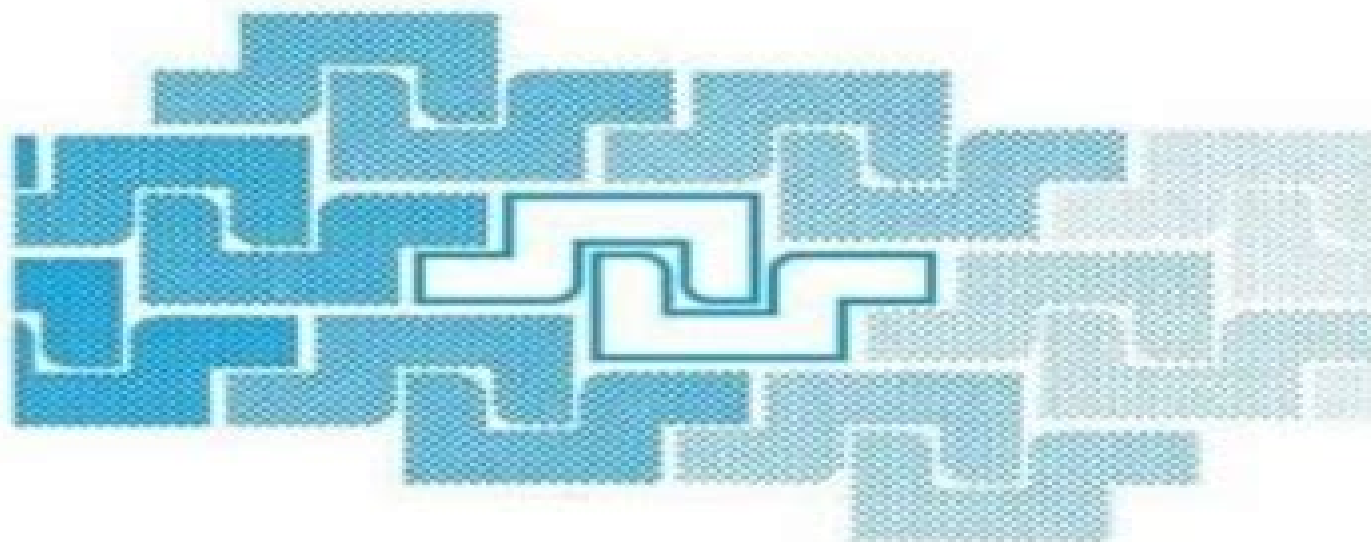




Nonlinear Waves: Classical and Quantum Aspects

Edited by

Fatkhulla Kh. Abdullaev and
Vladimir V. Konotop

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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

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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

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

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Fractional Kinetics in Solids Vladimir Uchaikin, Renat Sibatov, 2013 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 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. *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. *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. **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 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

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

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Direct and Projective Limits of Geometric Banach Structures. Patrick Cabau, Fernand Pelletier, 2023-10-06 This book describes in detail the basic context of the Banach setting and the most important Lie structures found in finite dimension The authors expose these concepts in the convenient framework which is a common context for projective and direct limits of Banach structures The book presents sufficient conditions under which these structures exist by passing to such limits In fact such limits appear naturally in many mathematical and physical domains Many examples in various fields illustrate the different concepts introduced Many geometric structures existing in the Banach setting are stable by passing to projective and direct limits with adequate conditions The convenient framework is used as a common context for such types of limits The contents of this book can be considered as an introduction to differential geometry in infinite dimension but also a way for new research topics This book allows the intended audience to understand the extension to the Banach framework of various topics in finite dimensional differential geometry and moreover the properties preserved by passing to projective and direct limits of such structures as a tool in different fields of research

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