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Nonlinearities in Periodic Structures and Metamaterials

 Springer

Nonlinearities In Periodic Structures And Metamaterials

Springer Series In Optical Sciences

Pierre A. Deymier



Nonlinearities In Periodic Structures And Metamaterials Springer Series In Optical Sciences:

Nonlinearities in Periodic Structures and Metamaterials Cornelia Denz, Sergej Flach, Yuri S. Kivshar, 2010-03-11
Optical information processing of the future is associated with a new generation of compact nanoscale optical devices operating entirely with light. Moreover, adaptive features such as self-guiding, reconfiguration, and switching become more and more important. Nonlinear devices offer an enormous potential for these applications. Consequently, innovative concepts for all optical communication and information technologies based on nonlinear effects in photonic crystal physics and nanoscale devices as metamaterials are of high interest. This book focuses on nonlinear optical phenomena in periodic media such as photonic crystals, optically induced adaptive lattices, atomic lattices, or metamaterials. The main purpose is to describe and overview new physical phenomena that result from the interplay between nonlinearities and structural periodicities and is a guide to actual and future developments for the expert reader in optical information processing as well as in the physics of cold atoms in optical lattices.

Acoustic Metamaterials and Phononic Crystals Pierre A. Deymier, 2013-01-13
This comprehensive book presents all aspects of acoustic metamaterials and phononic crystals. The emphasis is on acoustic wave propagation phenomena at interfaces such as refraction, especially unusual refractive properties and negative refraction. A thorough discussion of the mechanisms leading to such refractive phenomena includes local resonances in metamaterials and scattering in phononic crystals.

Environmentally Friendly Smart Materials with Special Electrical and Magnetic Properties Ilya A. Verbenko, Ivan A. Parinov, Ekaterina V. Glazunova, Svetlana I. Dudkina, Konstantin P. Andryushin, Dmitry V. Volkov, Larisa A. Reznichenko, 2025-08-11
This book presents a comprehensive exploration of the research and development of modern lead-free ferroelectric piezoceramic materials (FPCMs). Authored by Russian scientists from the Rostov Scientific School on Ferro piezoelectricity, the book looks at the theoretical and experimental challenges associated with these environmentally friendly materials. It highlights the transition from traditional lead-containing materials to innovative lead-free alternatives, emphasizing their significance in various advanced fields such as biomedicine, information technology, robotics, and precision engineering. The book provides a detailed analysis of the methodologies employed for the preparation of FPCMs, the impact of structural inhomogeneities on their properties, and the development of new active materials. It also covers the extensive experimental data on the modification of solid solutions, the influence of different modifiers, and the resulting electrical, dielectric, and mechanical characteristics. This book serves as an essential resource for researchers, engineers, and students interested in the cutting-edge advancements in environmentally friendly smart materials and their wide-ranging applications.

Odyssey of Light in Nonlinear Optical Fibers Kuppuswamy Porsezian, Ramanathan Ganapathy, 2017-12-19
Odyssey of Light in Nonlinear Optical Fibers: Theory and Applications presents a collection of breakthrough research portraying the odyssey of light from optical solitons to optical rogue waves in nonlinear optical fibers. The book provides a simple yet holistic view on the theoretical and application-oriented aspects of light with a special focus

on the underlying nonlinear phenomena Exploring the very frontiers of light wave technology the text covers the basics of nonlinear fiber optics and the dynamics of electromagnetic pulse propagation in nonlinear waveguides It also highlights some of the latest advances in nonlinear optical fiber technology discussing hidden symmetry reductions and Ablowitz Kaup Newell Segur AKNS hierarchies for nonautonomous solitons state of the art Brillouin scattering applications backpropagation and the concept of eigenvalue communication a powerful nonlinear digital signal processing technique that paves the way to overcome the current limitations of traditional communications methods in nonlinear fiber channels Key chapters study the feasibility of the eigenvalue demodulation scheme based on digital coherent technology by throwing light on the experimental study of the noise tolerance of the demodulated eigenvalues investigate matter wave solitons and other localized excitations pertaining to Bose Einstein condensates in atom optics and examine quantum field theory analogue effects occurring in binary waveguide arrays plasmonic arrays etc as well as their ensuing nonlinear wave propagation Featuring a foreword by Dr Akira Hasegawa the father of soliton communication systems *Odyssey of Light in Nonlinear Optical Fibers Theory and Applications* serves as a curtain raiser to usher in the photonics era The technological innovations at the core of the book form the basis for the next generation of ultra high speed computers and telecommunication devices

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 *Spontaneous Symmetry Breaking, Self-Trapping, and Josephson Oscillations* Boris A. Malomed, 2014-07-08 This volume collects a number of contributions on spontaneous symmetry breaking Current studies in this general field are going ahead at a full speed The book presents review chapters which give an overview on the major breakthroughs of recent years It covers a number of different physical settings which are introduced when a nonlinearity is added to the underlying symmetric problems and its strength exceeds a certain critical value The corresponding loss of symmetry called spontaneous symmetry breaking alias self trapping into asymmetric states is extensively discussed in this book The book presents both active theoretical studies of spontaneous symmetry breaking effects as well as experimental findings chiefly for Bose Einstein Condensates with the self repulsive nonlinearity and also for photorefractive media in optics Методы решения научных, технических и социальных задач Эдуард

Соснин, 2022-03-16 1973 1989 1991 2000 2015 2015 Mechanics of Metamaterials with Negative Parameters Teik-Cheng Lim, 2020-07-23 This book discusses bulk solids that derive their mechanical properties not from those of their base materials but from their designed microstructures Focusing on the negative mechanical properties it addresses topics that reveal the

counter intuitive nature of solids specifically the negativity of properties that are commonly positive such as negative bulk modulus negative compressibility negative hygroexpansion negative thermal expansion negative stiffness phase and negative Poisson's ratio These topics are significant not only due to the curiosity they have sparked but also because of the possibility of designing materials and structures that can behave in ways that are not normally expected in conventional solids and as such of materials that can outperform solids and structures made from conventional materials The book includes illustrations to facilitate learning and where appropriate reference tables The presentation is didactic starting with simple cases followed by increasingly complex ones It provides a solid foundation for graduate students and a valuable resource for practicing materials engineers seeking to develop novel materials through the judicious design of microstructures and their corresponding mechanisms

Physics and Applications of Negative Refractive Index Materials S. Anantha

Ramakrishna, Tomasz M. Grzegorzczak, 2008-09-26 Ever since the first experimental demonstration was reported in 2000 the interest in metamaterials and left handed media that exhibit a negative refractive index has increased exponentially

Surveying this explosive growth *Physics and Applications of Negative Refractive Index Materials* covers the fundamental physical principles and emerging engin

Advances in Applied Nonlinear Dynamics, Vibration, and Control - 2024 Xingjian

Jing, Dixiong Yang, Hu Ding, Jiqiang Wang, 2025-04-30 This book aims to provide readers with the latest exciting advancements in applied and interdisciplinary engineering science and technologies particularly in nonlinear dynamics vibration analysis and control control systems theory and methods robotics and their various engineering applications developed in recent years The chapters contributed by active scholars in these fields cover advanced systems theory and methods innovative technologies benchmark experimental validations and active engineering practices Readers will benefit from this cutting edge collection of applied nonlinear dynamics and control as well as various stimulating engineering theories methods and technologies finding inspiration for their ongoing R D work This book is intended for graduate students research staff and scholars in academics and also provides useful hand up guidance for professionals and engineers in practical engineering missions

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