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Spatial Hysteresis And Optical Patterns

Boris S. Kerner



Spatial Hysteresis And Optical Patterns:

Spatial Hysteresis and Optical Patterns Nikolay N. Rosanov, 2002-04-11 From the reviews This book is very well written and contains many important and new original results that certainly play an important role in today's nonlinear optics Physicalia **Nonlinear Optical Systems** Luigi Lugiato, Franco Prati, Massimo Brambilla, 2015-03-05 Guiding graduate students and researchers through the complex world of laser physics and nonlinear optics this book provides an in depth exploration of the dynamics of lasers and other relevant optical systems under the umbrella of a unitary spatio temporal vision Adopting a balanced approach the book covers traditional as well as special topics in laser physics quantum electronics and nonlinear optics treating them from the viewpoint of nonlinear dynamical systems These include laser emission frequency generation solitons optically bistable systems pulsations and chaos and optical pattern formation It also provides a coherent and up to date treatment of the hierarchy of nonlinear optical models and of the rich variety of phenomena they describe helping readers to understand the limits of validity of each model and the connections among the phenomena It is ideal for graduate students and researchers in nonlinear optics quantum electronics laser physics and photonics

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 **Patterns and Interfaces in Dissipative Dynamics** L.M. Pismen, 2006-07-07 Spontaneous pattern formation in nonlinear dissipative systems far from equilibrium is a paradigmatic case of emergent behaviour associated with complex systems It is encountered in a great variety of settings both in nature and technology and has numerous applications ranging from nonlinear optics through solid and fluid mechanics physical chemistry and chemical engineering to biology Nature creates its variety of forms through spontaneous pattern formation and self assembly and this strategy is likely to be imitated by future biomorphic technologies This book is a first hand account by one of the leading players in this field which gives in depth descriptions of analytical methods elucidating the complex evolution of nonlinear dissipative systems and brings the reader to the forefront of current research The introductory chapter on the theory of dynamical systems is written with a view to applications of its powerful methods to spatial and spatio temporal patterns It is followed by two chapters treating moving interfaces based largely on reaction diffusion and phase separating systems The following two chapters on amplitude equations for patterns and waves describe universal phenomena generated by representative equations which can be derived for a variety of non equilibrium systems originating in fluid mechanics physical chemistry or nonlinear optics This book addresses graduate students and non

specialists from the many related areas of applied mathematics physical chemistry chemical engineering and biology as well as the seasoned scientist in search of a modern source of reference Dissipative Solitons Nail Akhmediev, Adrian Ankiewicz, 2005-04-25 This volume is devoted to the exciting topic of dissipative solitons i.e pulses or spatially localised waves in systems exhibiting gain and loss Examples are laser systems nonlinear resonators and optical transmission lines The physical principles and mathematical concepts are explained in a clear and concise way suitable for students and young researchers The similarities and differences in the notion of a soliton between dissipative systems and Hamiltonian and integrable systems are discussed and many examples are given The contributions are written by the world's leading experts in the field making it a unique exposition of this emerging topic **Lecture Notes On Turbulence And Coherent Structures In Fluids, Plasmas And Nonlinear Media** Horst Punzmann, 2006-11-29 This book is based on the lectures delivered at the 19th Canberra International Physics Summer School held at the Australian National University in Canberra Australia in January 2006 The problem of turbulence and coherent structures is of key importance in many fields of science and engineering It is an area which is vigorously researched across a diverse range of disciplines such as theoretical physics oceanography atmospheric science magnetically confined plasma nonlinear optics etc Modern studies in turbulence and coherent structures are based on a variety of theoretical concepts numerical simulation techniques and experimental methods which cannot be reviewed effectively by a single expert The main goal of these lecture notes is to introduce state of the art turbulence research in a variety of approaches theoretical numerical simulations and experiments and applications fluids plasmas geophysics nonlinear optical media by several experts A smooth introduction is presented to readers who are not familiar with the field while reviewing the most recent advances in the area This collection of lectures will provide a useful review for both postgraduate students and researchers new to the advancements in this field as well as specialists seeking to expand their knowledge across different areas of turbulence research *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 *Structural Nonlinear Dynamics and Diagnosis* Mohamed Belhaq, 2015-08-13 This book which presents the peer reviewed post proceedings of CSNDD 2012 and CSNDD

2014 addresses the important role that relevant concepts and tools from nonlinear and complex dynamics could play in present and future engineering applications. It includes 22 chapters contributed by outstanding researchers and covering various aspects of applications including structural health monitoring diagnosis and damage detection experimental methodologies active vibration control and smart structures passive control of structures using nonlinear energy sinks vibro impact dynamic MEMS NEMS AFM energy harvesting materials and structures and time delayed feedback control as well as aspects of deterministic versus stochastic dynamics and control of nonlinear phenomena in physics. Researchers and engineers interested in the challenges posed and opportunities offered by nonlinearities in the development of passive and active control strategies energy harvesting novel design criteria modeling and characterization will find the book to be an outstanding introduction.

Nonlinear Waves and Solitons on Contours and Closed Surfaces Andrei Ludu, 2007-09-09

Everything the Power of the World does is done in a circle. The sky is round and I have heard that the earth is round like a ball and so are all the stars. The wind in its greatest power whirls. Birds make their nests in circles for theirs is the same religion as ours. The sun comes forth and goes down again in a circle. The moon does the same and both are round. Even the seasons form a great circle in their changing and always come back again to where they were. The life of a man is a circle from childhood to childhood. And so it is everything where power moves.

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Nonlinearity is a captivating manifestation of the observable Universe whose importance has increased over the decades and has found more and more elds of application ranging from elementary particles nuclear physics biology wave dynamics at any scale uids plasmas to astrophysics. The central character of this 172 year old story is the soliton. Namely a localized pulse traveling without spreading and having particle like properties plus an in nite number of conservation laws associated to its dynamics. In general solitons arise as exact solutions of approximative models. There are di ent explanation at di erent levels for the existence of solitons. From the experimentalist point of view solitons can be created if the propagation c

guration is long enough narrow enough like long and shallow channels ber optics electric lines etc.

Localized States in Physics: Solitons and Patterns Orazio Descalzi, Marcel Clerc, Stefania Residori, Gaetano Assanto, 2011-01-06

Systems driven far from thermodynamic equilibrium can create dissipative structures through the spontaneous breaking of symmetries. A particularly fascinating feature of these pattern forming systems is their tendency to produce spatially confined states. These localized wave packets can exist as propagating entities through space and or time. Various examples of such systems will be dealt with in this book including localized states in fluids chemical reactions on surfaces neural networks optical systems granular systems population models and Bose Einstein condensates. This book should appeal to all physicists mathematicians and electrical engineers interested in localization in far from equilibrium systems. The authors all recognized experts in their fields strive to achieve a balance between theoretical and experimental considerations thereby giving an overview of fascinating physical principles their manifestations in diverse systems and the novel technical applications on the horizon.

Nonlinear Dynamics of Chaotic and Stochastic Systems Vadim S. Anishchenko, Vladimir Astakhov, Alexander Neiman, Tatjana Vadivasova, Lutz Schimansky-Geier, 2007-07-20 We present an improved and enlarged version of our book *Nonlinear Dynamics of Chaotic and Stochastic Systems* published by Springer in 2002. Basically the new edition of the book corresponds to its first version. While preparing this edition we made some clarifications in several sections and also corrected the misprints noticed in some formulas. Besides three new sections have been added to Chapter 2. They are Statistical Properties of Dynamical Chaos, Effects of Synchronization in Extended Self-Sustained Oscillatory Systems and Synchronization in Living Systems. The sections indicated reflect the most interesting results obtained by the authors after publication of the first edition. We hope that the new edition of the book will be of great interest for a wide section of readers who are already specialists or those who are beginning research in the fields of nonlinear oscillation and wave theory, dynamical chaos, synchronization and stochastic process theory. Saratov, Berlin and St. Louis, V. S. Anishchenko, November 2006. A. B. Neiman, T. E. Vadivasova, V. V. Astakhov, L. Schimansky-Geier. Preface to the First Edition. This book is devoted to the classical background and to contemporary results on nonlinear dynamics of deterministic and stochastic systems. Considerable attention is given to the effects of noise on various regimes of dynamic systems with noise-induced order. On the one hand, there exists a rich literature of excellent books on nonlinear dynamics and chaos; on the other hand, there are many marvelous monographs and textbooks on the statistical physics of far from equilibrium and stochastic processes. This book is an attempt to combine the approach of nonlinear dynamics based on the deterministic evolution equations with the approach of statistical physics based on stochastic or kinetic equations. One of our main aims is to show the important role of noise in the organization and properties of dynamic regimes of nonlinear dissipative systems. *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 **Neuromorphic Photonics** Paul R.

Prucnal, Bhavin J. Shastri, 2017-05-08 This book sets out to build bridges between the domains of photonic device physics and neural networks providing a comprehensive overview of the emerging field of neuromorphic photonics It includes a thorough discussion of evolution of neuromorphic photonics from the advent of fiber optic neurons to today's state of the art integrated laser neurons which are a current focus of international research *Neuromorphic Photonics* explores candidate interconnection architectures and devices for integrated neuromorphic networks along with key functionality such as learning It is written at a level accessible to graduate students while also intending to serve as a comprehensive reference for experts in the field Quodons in Mica Juan F. R. Archilla, Noé Jiménez, Victor J. Sánchez-Morcillo, Luis M.

García-Raffi, 2015-07-31 This book presents the current knowledge about nonlinear localized travelling excitations in crystals Excitations can be vibrational electronic magnetic or of many other types in many different types of crystals as silicates semiconductors and metals The book is dedicated to the British scientist FM Russell recently turned 80 He found 50 years ago that a mineral mica muscovite was able to record elementary charged particles and much later that also some kind of localized excitations he called them quodons was also recorded The tracks therefore provide a striking experimental evidence of quodons existence The first chapter by him presents the state of knowledge in this topic It is followed by about 18 chapters from world leaders in the field reviewing different aspects materials and methods including experiments molecular dynamics and theory and also presenting the latest results The last part includes a personal narration of FM Russell of the deciphering of the marks in mica It provides a unique way to present the science in an accessible way and also illustrates the process of discovery in a scientist's mind Optical Solitons Yuri S. Kivshar, Govind P. Agrawal, 2003-06-12 The current research into solitons and their use in fiber optic communications is very important to the future of communications Since the advent of computer networking and high speed data transmission technology people have been striving to develop faster and more reliable communications media Optical pulses tend to broaden over relatively short distances due to dispersion but solitons on the other hand are not as susceptible to the effects of dispersion and although they are subject to losses due to attenuation they can be amplified without being received and retransmitted This book is the first to provide a thorough overview of optical solitons The main purpose of this book is to present the rapidly developing field of Spatial Optical Solitons starting from the basic concepts of light self focusing and self trapping It will introduce the fundamental concepts of the theory of nonlinear waves and solitons in non integrated but physically realistic models of nonlinear optics including their

stability and dynamics Also it will summarize a number of important experimental verification of the basic theoretical predictions and concepts covering the observation of self focusing in the earlier days of nonlinear optics and the most recent experimental results on spatial solitons vortex solitons and soliton interaction spiraling Introduces the fundamental concepts of the theory of nonlinear waves and solitons through realistic models Material is based on authors years of experience actively working in and researching the field Summarizes the most important experimental verification of the basic theories predictions and concepts of this ever evolving field from the earliest studies to the most recent Synergetics Hermann Haken, 2004-01-12 This book is an often requested reprint of two classic texts by H Haken *Synergetics An Introduction and Advanced Synergetics* Synergetics an interdisciplinary research program initiated by H Haken in 1969 deals with the systematic and methodological approach to the rapidly growing field of complexity Going well beyond qualitative analogies between complex systems in fields as diverse as physics chemistry biology sociology and economics Synergetics uses tools from theoretical physics and mathematics to construct an unifying framework within which quantitative descriptions of complex self organizing systems can be made This may well explain the timelessness of H Haken s original texts on this topic which are now recognized as landmarks in the field of complex systems They provide both the beginning graduate student and the seasoned researcher with solid knowledge of the basic concepts and mathematical tools Moreover they admirably convey the spirit of the pioneering work by the founder of Synergetics through the essential applications contained herein that have lost nothing of their paradigmatic character since they were conceived Introduction to Modern Traffic Flow Theory and Control Boris S. Kerner, 2009-09-16 The understanding of empirical traffic congestion occurring on unsignalized multi lane highways and freeways is a key for effective traffic management control organization and other applications of transportation engineering However the traffic flow theories and models that dominate up to now in transportation research journals and teaching programs of most universities cannot explain either traffic breakdown or most features of the resulting congested patterns These theories are also the basis of most dynamic traffic assignment models and freeway traffic control methods which therefore are not consistent with features of real traffic For this reason the author introduced an alternative traffic flow theory called three phase traffic theory which can predict and explain the empirical spatiotemporal features of traffic breakdown and the resulting traffic congestion A previous book *The Physics of Traffic* Springer Berlin 2004 presented a discussion of the empirical spatiotemporal features of congested traffic patterns and of three phase traffic theory as well as their engineering applications Rather than a comprehensive analysis of empirical and theoretical results in the field the present book includes no more empirical and theoretical results than are necessary for the understanding of vehicular traffic on unsignalized multi lane roads The main objectives of the book are to present an elementary traffic flow theory and control methods as well as to show links between three phase traffic theory and earlier traffic flow theories The need for such a book follows from many comments of colleagues made after publication of the book *The Physics of Traffic* *Reaction-Transport Systems*

Vicenc Mendez, Sergei Fedotov, Werner Horsthemke, 2010-06-10 This book is an introduction to the dynamics of reaction diffusion systems with a focus on fronts and stationary spatial patterns Emphasis is on systems that are non standard in the sense that either the transport is not simply classical diffusion Brownian motion or the system is not homogeneous A important feature is the derivation of the basic phenomenological equations from the mesoscopic system properties Topics addressed include transport with inertia described by persistent random walks and hyperbolic reaction transport equations and transport by anomalous diffusion in particular subdiffusion where the mean square displacement grows sublinearly with time In particular reaction diffusion systems are studied where the medium is in turn either spatially inhomogeneous compositionally heterogeneous or spatially discrete Applications span a vast range of interdisciplinary fields and the systems considered can be as different as human or animal groups migrating under external influences population ecology and evolution complex chemical reactions or networks of biological cells Several chapters treat these applications in detail

Nonlinear Fokker-Planck Equations T.D. Frank, 2005-01-07 Centered around the natural phenomena of relaxations and fluctuations this monograph provides readers with a solid foundation in the linear and nonlinear Fokker Planck equations that describe the evolution of distribution functions It emphasizes principles and notions of the theory e g self organization stochastic feedback free energy and Markov processes while also illustrating the wide applicability e g collective behavior multistability front dynamics and quantum particle distribution The focus is on relaxation processes in homogeneous many body systems describable by nonlinear Fokker Planck equations Also treated are Langevin equations and correlation functions Since these phenomena are exhibited by a diverse spectrum of systems examples and applications span the fields of physics biology and neurophysics mathematics psychology and biomechanics

Dissipative Solitons: From Optics to Biology and Medicine Nail Akhmediev, Adrian Ankiewicz, 2008-08-26 The dissipative soliton concept is a fundamental extension of the concept of solitons in conservative and integrable systems It includes ideas from three major sources namely standard soliton theory developed since the 1960s nonlinear dynamics theory and Prigogine s ideas of systems far from equilibrium These three sources also correspond to the three component parts of this novel paradigm This book explains the above principles in detail and gives the reader various examples

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