NONLINEAR DYNAMICS IN OPTICAL COMPLEX SYSTEMS

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Nonlinear Dynamics In Optical Complex Systems

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Nonlinear Dynamics in Optical Complex Systems Kenju Otsuka, 2000-04-30 This book is the first comprehensive volume on nonlinear dynamics and chaos in optical systems A few books have been published recently but they summarize applied mathematical methodologies toward understanding of nonlinear dynamics in laser systems with small degrees of freedom focusing on linearized perturbation and bifurcation analyses In contrast to these publications this book summarizes nonlinear dynamic problems in optical complex systems possessing large degrees of freedom systematically featuring our original experimental results and their theoretical treatments The new concepts introduced in this book will have a wide appeal to audiences involved in a rapidly growing field of nonlinear dynamics This book focuses on nonlinear dynamics and cooperative functions in realistic optical complex systems such as multimode lasers laser array coupled nonlinear element systems and their applications to optical processing This book is prepared for graduate students majoring in optical and laser physics but the generic nature of complex systems described in this book may stimulate researchers in the field of nonlinear dynamics covering different academic areas including applied mathematics hydrodynamics celestial mechanics chemistry biology and economics Advances in Nonlinear Photonics Giancarlo C. Righini, Luigi Sirleto, 2023-05-03 Advances in Nonlinear Photonics combines fundamental principles with an overview of the latest developments The book is suitable for the multidisciplinary audience of photonics researchers and practitioners in academia and R D including materials scientists and engineers applied physicists chemists etc As nonlinear phenomena are at the core of photonic devices and may enable future applications such as all optical switching all optical signal processing and quantum photonics this book provides an overview of key concepts In addition the book reviews the most important advances in the field and how nonlinear processes may be exploited in different photonic applications Introduces fundamental principles of nonlinear phenomena and their application in materials and devices Reviews and provides definitions of the latest research directions in the field of nonlinear photonics Discusses the most important developments in materials and applications including future prospects Nonlinear <u>Dynamics and Entropy of Complex Systems with Hidden and Self-excited Attractors</u> Christos Volos, Sajad Jafari, Jacques Kengne, Jesus M. Munoz-Pacheco, Karthikeyan Rajagopal, 2019-05-03 In recent years entropy has been used as a measure of the degree of chaos in dynamical systems Thus it is important to study entropy in nonlinear systems Moreover there has been increasing interest in the last few years regarding the novel classification of nonlinear dynamical systems including two kinds of attractors self excited attractors and hidden attractors. The localization of self excited attractors by applying a standard computational procedure is straightforward In systems with hidden attractors however a specific computational procedure must be developed since equilibrium points do not help in the localization of hidden attractors Some examples of this kind of system are chaotic dynamical systems with no equilibrium points with only stable equilibria curves of equilibria and surfaces of equilibria and with non hyperbolic equilibria. There is evidence that hidden attractors play a vital role in various fields

ranging from phase locked loops oscillators describing convective fluid motion drilling systems information theory cryptography and multilevel DC DC converters This Special Issue is a collection of the latest scientific trends on the advanced topics of dynamics entropy fractional order calculus and applications in complex systems with self excited attractors and hidden attractors. Laser Dynamics Thomas Erneux, Pierre Glorieux, 2010-04-29 Bridging the gap between laser physics and applied mathematics this book offers a new perspective on laser dynamics Combining fresh treatments of classic problems with up to date research asymptotic techniques appropriate for nonlinear dynamical systems are shown to offer a powerful alternative to numerical simulations The combined analytical and experimental description of dynamical instabilities provides a clear derivation of physical formulae and an evaluation of their significance Starting with the observation of different time scales of an operating laser the book develops approximation techniques to systematically explore their effects Laser dynamical regimes are introduced at different levels of complexity from standard turn on experiments to stiff chaotic spontaneous or driven pulsations Particular attention is given to quantitative comparisons between experiments and theory The book broadens the range of analytical tools available to laser physicists and provides applied mathematicians with problems of practical interest making it invaluable for graduate students and researchers

Semiconductor Lasers Junji Ohtsubo, 2012-10-05 This third edition of Semiconductor Lasers Stability Instability and Chaos was significantly extended In the previous edition the dynamics and characteristics of chaos in semiconductor lasers after the introduction of the fundamental theory of laser chaos and chaotic dynamics induced by self optical feedback and optical injection was discussed Semiconductor lasers with new device structures such as vertical cavity surface emitting lasers and broad area semiconductor lasers are interesting devices from the viewpoint of chaotic dynamics since they essentially involve chaotic dynamics even in their free running oscillations. These topics are also treated with respect to the new developments in the current edition Also the control of such instabilities and chaos control are critical issues for applications Another interesting and important issue of semiconductor laser chaos in this third edition is chaos synchronization between two lasers and the application to optical secure communication One of the new topics in this edition is fast physical number generation using chaotic semiconductor lasers for secure communication and development of chaos chips and their application As other new important topics the recent advance of new semiconductor laser structures is presented such as quantum dot semiconductor lasers quantum cascade semiconductor lasers vertical cavity surface emitting lasers and physical random number generation with application to quantum key distribution Stabilities instabilities and control of quantum dot semiconductor lasers and quantum cascade lasers are important topics in this field Topics In Nonlinear Dynamics: Applications To Physics, Biology And Economic Systems Erik Mosekilde, 1997-01-04 Through a series of examples from physics engineering biology and economics this book illustrates the enormous potential for application of ideas and concepts from nonlinear dynamics and chaos theory The overlap with examples published in other books is

virtually equal to zero The book takes the reader from detailed studies of bifurcation structures of relativity simple models to pattern formation in spatially extended systems The book also discusses the different perspectives that nonlinear dynamics brings to different fields of science Nonlinear Dynamics and Computational Physics V. B. Sheorey, 1999 The 24 articles presented in this volume cover emerging areas in nonlinear dynamics They discuss a range of topics from chaotic quantum systems to nonlinear dynamics of the earth's magnetosphere and from microscopic chaos and nonequilibrium statistical mechanics to nonlinear dynamics of human brain activity. The articles are written by leading researchers both from India and other countries It is hoped that the volume will provide information and inspiration and suggest new research directions both to the expert and novice alike **Progress in Optics** Emil Wolf, 2005-12-28 In the thirty seven years that have gone by since the first volume of Progress in Optics was published optics has become one of the most dynamic fields of science At the time of inception of this series the first lasers were only just becoming operational holography was in its infancy subjects such as fiber optics integrated optics and optoelectronics did not exist and quantum optics was the domain of only a few physicists The term photonics had not yet been coined Today these fields are flourishing and have become areas of specialisation for many science and engineering students and numerous research workers and engineers throughout the world Some of the advances in these fields have been recognized by awarding Nobel prizes to seven physicists in the last twenty years The volumes in this series which have appeared up to now contain nearly 190 review articles by distinguished research workers which have become permanent records for many important developments. They have helped optical scientists and optical engineers to stay abreast of their fields There is no sign that developments in optics are slowing down or becoming less interesting We confidently expect that just like their predecessors future volumes of Progress in Optics will faithfully record the most important advances that are being made in optics and related fields **Progress in Optics**, 2005-10-27 In the thirty seven years that have gone by since the first volume of Progress in Optics was published optics has become one of the most dynamic fields of science At the time of inception of this series the first lasers were only just becoming operational holography was in its infancy subjects such as fiber optics integrated optics and optoelectronics did not exist and quantum optics was the domain of only a few physicists The term photonics had not yet been coined Today these fields are flourishing and have become areas of specialisation for many science and engineering students and numerous research workers and engineers throughout the world Some of the advances in these fields have been recognized by awarding Nobel prizes to seven physicists in the last twenty years The volumes in this series which have appeared up to now contain nearly 190 review articles by distinguished research workers which have become permanent records for many important developments They have helped optical scientists and optical engineers to stay abreast of their fields. There is no sign that developments in optics are slowing down or becoming less interesting We confidently expect that just like their predecessors future volumes of Progress in Optics will faithfully record the most important advances that are being made in optics and related fields

Complex Systems: Chaos and Beyond Kunihiko Kaneko, Ichiro Tsuda, 2011-06-28 Chaos in science has always been a fascinating realm since it challenges the usual scientific approach of reductionism While carefully distinguishing between complexity holism randomness incompleteness nondeterminism and stochastic behaviour the authors show that although many aspects of chaos have been phenomenologically understood most of its defining principles are still difficult to grasp and formulate Demonstrating that chaos escapes all traditional methods of description the authors set out to find new methods to deal with this phenomenon and illustrate their constructive approach with many examples from physics biology and information technology While maintaining a high level of rigour an overly complicated mathematical apparatus is avoided in order to make this book accessible beyond the specialist level to a wider interdisciplinary readership Guided Wave Optics and Optoelectronics Bishnu Pal, 2010-02-01 As the editor I feel extremely happy to present to the readers such a rich collection of chapters authored co authored by a large number of experts from around the world covering the broad field of guided wave optics and optoelectronics Most of the chapters are state of the art on respective topics or areas that are emerging Several authors narrated technological challenges in a lucid manner which was possible because of individual expertise of the authors in their own subject specialties I have no doubt that this book will be useful to graduate students teachers researchers and practicing engineers and technologists and that they would love to have it on their book shelves for ready reference at any time Handbook of Systems Engineering and Analysis of Electro-Optical and Infrared Systems William Wolfgang Arrasmith, 2025-06-30 There has been a lot of innovation in systems engineering and some fundamental advances in the fields of optics imaging lasers and photonics that warrant attention This volume focuses on concepts principles and methods of systems engineering related topics from government industrial and academic settings such as development and operations DevOps agile methods and the concept of the digital twin Handbook of Systems Engineering and Analysis of Electro Optical and Infrared Systems Concepts Principles and Methods offers more information on decision and risk analysis and statistical methods in systems engineering such as design of experiments DOX methods hypothesis testing analysis of variance blocking 2k factorial analysis and regression analysis It includes new material on systems architecture to properly quide the evolving system design and bridge the gap between the requirements generation and design efforts The integration of recent high speed atmospheric turbulence research results in the optical technical examples and case studies to illustrate the new developments is also included A presentation of new optical technical materials on adaptive optics AO atmospheric turbulence compensation ATC and laser systems along with more are also key updates that are emphasized in the second edition 2 volume set Because this volume blends modern day systems engineering methods with detailed optical systems analysis and applies these methodologies to EO IR systems this new edition is an excellent text for professionals in STEM disciplines who work with optical or infrared systems It s also a great practical reference text for practicing engineers and a solid educational text for graduate level systems engineering engineering

science and technology students Nonlinear Dynamics: Materials, Theory and Experiments Mustapha Tlidi, Marcel. G. Clerc, 2015-11-14 This book presents recent advances new ideas and novel techniques related to the field of nonlinear dynamics including localized pattern formation self organization and chaos Various natural systems ranging from nonlinear optics to mechanics fluids and magnetic are considered The aim of this book is to gather specialists from these various fields of research to promote cross fertilization and transfer of knowledge between these active research areas In particular nonlinear optics and laser physics constitute an important part in this issue due to the potential applications for all optical control of light optical storage and information processing Other possible applications include the generation of ultra short pulses using all fiber cavities Computer Simulation Studies in Condensed-Matter Physics V David P. Landau, K.K. Mon, Heinz-Bernd Schüttler, 2012-12-06 As the role of computer simulations began to increase in importance we sensed a need for a meeting place for both experienced simulators and neophytes to discuss new techniques and results in an evironment which promotes extended discussion As a consequence of these concerns The Center for Simulational Physics established an annual workshop on Recent Developments in Computer Simulation Studies in Condensed Matter Physics This year s workshop was the fifth in this series and the interest which the scientific community has shown demonstrates quite clearly the useful purpose which the series has served The workshop was held at the University of Georgia February 17 21 1992 and these proceedings form a record of the workshop which is published with the goal of timely dissemination of the papers to a wider audience The proceedings are divided into four parts The first part contains invited papers which deal with simulational studies of classical systems and includes an introduction to some new simulation techniques and special purpose computers as well A separate section of the proceedings is devoted to invited papers on quantum systems including new results for strongly correlated electron and quan tum spin models The third section is comprised of a single invited description of a newly developed software shell designed for running parallel programs. The contributed presentations Computer Simulation Studies in Condensed-Matter Physics XI David P. Landau, Heinz-Bernd comprise the final chapter Schüttler, 2012-12-06 More than a decade ago because of the phenomenal growth in the power of computer simulations The University of Georgia formed the first institutional unit devoted to the use of simulations in research and teaching The Center for Simulational Physics As the simulations community expanded further we sensed a need for a meeting place for both experienced simulators and neophytes to discuss new techniques and recent results in an environment which promoted extended discussion As a consequence the Center for Simulational Physics established an annual workshop on Recent Developments in Computer Simulation Studies in Condensed Matter Physics This year s workshop was the eleventh in this series and the interest shown by the scientific community demonstrates quite clearly the useful purpose which the series has served The latest workshop was held at The University of Georgia February 23 27 1998 and these proceedings provide a status report on a number of important topics This volume is published with the goal of timely dissemination of the material

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also acknowledge the Donors of the Petroleum Research Fund administered by the American Chemical Society and the National Science Foundation for partial support This volume contains both invited papers and contributed presentations on problems in both classical and quantum condensed matter physics Thinking Machines and the Philosophy of Computer Science: Concepts and Principles Vallverdú, Jordi, 2010-06-30 This book offers a high interdisciplinary exchange of ideas pertaining to the philosophy of computer science from philosophical and mathematical logic to epistemology engineering ethics or neuroscience experts and outlines new problems that arise with new tools Provided by publisher Information Processing Derong Liu, Shengli Xie, Yuanging Li, Dongbin Zhao, El-Sayed M. El-Alfy, 2017-11-07 The six volume set LNCS 10634 LNCS 10635 LNCS 10636 LNCS 10637 LNCS 10638 and LNCS 10639 constitues the proceedings of the 24rd International Conference on Neural Information Processing ICONIP 2017 held in Guangzhou China in November 2017 The 563 full papers presented were carefully reviewed and selected from 856 submissions. The 6 volumes are organized in topical sections on Machine Learning Reinforcement Learning Big Data Analysis Deep Learning Brain Computer Interface Computational Finance Computer Vision Neurodynamics Sensory Perception and Decision Making Computational Intelligence Neural Data Analysis Biomedical Engineering Emotion and Bayesian Networks Data Mining Time Series Analysis Social Networks Bioinformatics Information Security and Social Cognition Robotics and Control Pattern Recognition Neuromorphic Hardware and Speech Processing

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