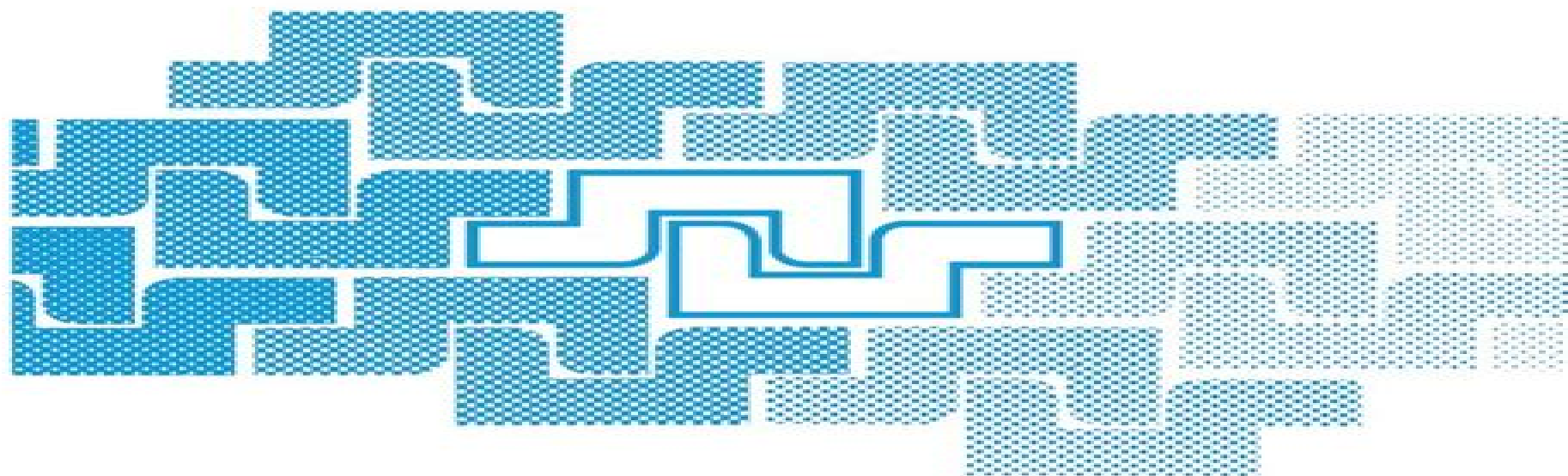




Chaotic Dynamics and Transport in Classical and Quantum Systems

Edited by

P. Collet, M. Courbage, S. Metens,
A. Neishtadt and G. Zaslavsky

NATO Science Series

Chaotic Dynamics And Transport In Classical And Quantum Systems

R. Kaiser, C. Westbrook, F. David



Chaotic Dynamics And Transport In Classical And Quantum Systems:

Chaotic Dynamics and Transport in Classical and Quantum Systems Pierre Collet, M. Courbage, S. Métens, A. Neishtadt, G. Zaslavsky, 2005-07-28 From the 18th to the 30th August 2003 a NATO Advanced Study Institute ASI was held in Cargèse Corsica France Cargèse is a nice small village situated by the Mediterranean Sea and the Institut d'Études Scientifiques de Cargèse provides a traditional place to organize Theoretical Physics Summer Schools and Workshops in a closed and well equipped place The ASI was an International Summer School on Chaotic Dynamics and Transport in Classical and Quantum Systems The main goal of the school was to develop the mutual interaction between Physics and Mathematics concerning statistical properties of classical and quantum dynamical systems Various experimental and numerical observations have shown new phenomena of chaotic and anomalous transport fractal structures chaos in physics accelerators and in cooled atoms inside atom optics billiards space time chaos fluctuations far from equilibrium quantum decoherence etc New theoretical methods have been developed in order to modelize and to understand these phenomena volume preserving and ergodic dynamical systems non equilibrium statistical dynamics fractional kinetics coupled maps space time entropy quantum dissipative processes etc The school gathered a team of specialists from several horizons lecturing and discussing on the achievements perspectives and open problems both fundamental and applied [Chaotic Dynamics and Transport in Fluids and Plasmas](#) Ilya Prigogine, W. Horton, Y. Ichikawa, G. Zaslavsky, 1992-10-31 Market Students and researchers in chaos plasma physics and fluid transport This superb collection of invited papers offers an excellent overview of the current status and future trends in chaotic dynamics plasma and fluid physics nonlinear phenomena and chaos and transport and turbulence studies *Non-traditional Dynamics in Electronics: Theory and Practice* Sergey N. Vladimirov, Sergey M. Smolskiy, 2010-10-04 The main theme of the proposed book is devoted to investigation of non trivial problems of functioning of Ultra High Frequency UHF electronic devices and systems in the various type dynamic instability modes Both flows and maps representations are considered because the relation between maps and flows was repeatedly discussed in different publications On the contrary all systems described in the offered book for the first time are considered from the point of view either internal structure or the description and analysis **Mathematical Structures of Ergodicity and Chaos in Population Dynamics** Paweł J. Mitkowski, 2020-09-19 This book concerns issues related to biomathematics medicine or cybernetics as practiced by engineers Considered population dynamics models are still in the interest of researchers and even this interest is increasing especially now in the time of SARS CoV 2 coronavirus pandemic when models are intensively studied in order to help predict its behaviour within human population The structures of population dynamics models and practical methods of finding their solutions are discussed Finally the hypothesis of the existence of non trivial ergodic properties of the model of erythropoietic response dynamics formulated by A Lasota in the form of delay differential equation with unimodal feedback is analysed The research can be compared with actual medical data as well as shows that the

structures of population models can reflect the dynamic structures of reality *Advances in Chemical Physics: Special Volume in Memory of Ilya Prigogine, Volume 135* Stuart A. Rice, 2007-04-10 This series provides the chemical physics field with a forum for critical authoritative evaluations of advances in every area of the discipline This stand alone special topics volume reports recent advances in electron transfer research with significant up to date chapters by internationally recognized researchers *Cryptology Transmitted Message Protection* Igor Izmailov, Boris Poizner, Ilia Romanov, Sergey Smolskiy, 2016-06-24 This book presents methods to improve information security for protected communication It combines and applies interdisciplinary scientific engineering concepts including cryptography chaos theory nonlinear and singular optics radio electronics and self changing artificial systems It also introduces additional ways to improve information security using optical vortices as information carriers and self controlled nonlinearity with nonlinearity playing a key evolving role The proposed solutions allow the universal phenomenon of deterministic chaos to be discussed in the context of information security problems on the basis of examples of both electronic and optical systems Further the book presents the vortex detector and communication systems and describes mathematical models of the chaos oscillator as a coder in the synchronous chaotic communication and appropriate decoders demonstrating their efficiency both analytically and experimentally Lastly it discusses the cryptologic features of analyzed systems and suggests a series of new structures for confident communication **Advances in Dynamics, Patterns, Cognition** Igor S. Aranson, Arkady Pikovsky, Nikolai F. Rulkov, Lev S. Tsimring, 2017-05-02 This book focuses on recent progress in complexity research based on the fundamental nonlinear dynamical and statistical theory of oscillations waves chaos and structures far from equilibrium Celebrating seminal contributions to the field by Prof M I Rabinovich of the University of California at San Diego this volume brings together perspectives on both the fundamental aspects of complexity studies as well as in applications in different fields ranging from granular patterns to understanding of the cognitive brain and mind dynamics The slate of world class authors review recent achievements that together present a broad and coherent coverage of modern research in complexity greater than the sum of its parts **Frontiers in the Study of Chaotic Dynamical Systems with Open Problems** Elhadj Zeraouia, Julien C. Sprott, 2011 This collection of review articles is devoted to new developments in the study of chaotic dynamical systems with some open problems and challenges The papers written by many of the leading experts in the field cover both the experimental and theoretical aspects of the subject This edited volume presents a variety of fascinating topics of current interest and problems arising in the study of both discrete and continuous time chaotic dynamical systems Exciting new techniques stemming from the area of nonlinear dynamical systems theory are currently being developed to meet these challenges Presenting the state of the art of the more advanced studies of chaotic dynamical systems *Frontiers in the Study of Chaotic Dynamical Systems with Open Problems* is devoted to setting an agenda for future research in this exciting and challenging field **International Conference on Theory and Application in Nonlinear Dynamics (ICAND 2012)**

Visarath In, Antonio Palacios, Patrick Longhini, 2013-12-13 A collection of different lectures presented by experts in the field of nonlinear science provides the reader with contemporary cutting edge research works that bridge the gap between theory and device realizations of nonlinear phenomena Representative examples of topics covered include chaos gates social networks communication sensors lasers molecular motors biomedical anomalies stochastic resonance nano oscillators for generating microwave signals and related complex systems A common theme among these and many other related lectures is to model study understand and exploit the rich behavior exhibited by nonlinear systems to design and fabricate novel technologies with superior characteristics Consider for instance the fact that a shark's sensitivity to electric fields is 400 times more powerful than the most sophisticated electric field sensor In spite of significant advances in material properties in many cases it remains a daunting task to duplicate the superior signal processing capabilities of most animals Since nonlinear systems tend to be highly sensitive to perturbations when they occur near the onset of a bifurcation there are also lectures on the general topic of bifurcation theory and on how to exploit such bifurcations for signal enhancements purposes This manuscript will appeal to researchers interested in both theory and implementations of nonlinear systems Quantum

Chaos Y2K Karl-Fredrik Berggren, 2001 Quantum chaos is becoming a very wide field that ranges from experiments to theoretical physics and purely mathematical issues In view of this grand span Nobel Symposium 116 focused on experiments and theory and attempted to encourage interplay between them There was emphasis on the interdisciplinary character of the subject involving a broad range of subjects in physics including condensed matter physics nuclear physics atomic physics and elementary particle physics The physics involved in quantum chaos has much in common with acoustics microwaves optics etc and therefore the symposium also covered aspects of wave chaos in this broader sense The program was structured according to the following areas manifestations of classical chaos in quantum systems transport phenomena quantal spectra in terms of periodic orbits semiclassical and random matrix approaches quantum chaos in interacting systems chaos and tunneling wave dynamic chaos This important book constitutes the proceedings of the symposium **Fractional Quantum**

Mechanics Nick Laskin, 2018-05-28 Fractional quantum mechanics is a recently emerged and rapidly developing field of quantum physics This is the first monograph on fundamentals and physical applications of fractional quantum mechanics written by its founder The fractional Schrödinger equation and the fractional path integral are new fundamental physical concepts introduced and elaborated in the book The fractional Schrödinger equation is a manifestation of fractional quantum mechanics The fractional path integral is a new mathematical tool based on integration over Lévy flights The fractional path integral method enhances the well known Feynman path integral framework Related topics covered in the text include time fractional quantum mechanics fractional statistical mechanics fractional classical mechanics and the stable Lévy random process The book is well suited for theorists pure and applied mathematicians solid state physicists chemists and others working with the Schrödinger equation the path integral technique and applications of fractional calculus in various research

areas It is useful to skilled researchers as well as to graduate students looking for new ideas and advanced approaches

Nonlinear Dynamics of Rotating Shallow Water: Methods and Advances, 2007-04-03 The rotating shallow water RSW model is of wide use as a conceptual tool in geophysical fluid dynamics GFD because in spite of its simplicity it contains all essential ingredients of atmosphere and ocean dynamics at the synoptic scale especially in its two or multi layer version The book describes recent advances in understanding in the framework of RSW and related models of some fundamental GFD problems such as existence of the slow manifold dynamical splitting of fast inertia gravity waves and slow vortices Rossby waves motions nonlinear geostrophic adjustment and wave emission the role of essentially nonlinear wave phenomena The specificity of the book is that analytical numerical and experimental approaches are presented together and complement each other Special attention is paid on explaining the methodology e g multiple time scale asymptotic expansions averaging and removal of resonances in what concerns theory high resolution finite volume schemes in what concerns numerical simulations and turntable experiments with stratified fluids in what concerns laboratory simulations A general introduction into GFD is given at the beginning to introduce the problematics for non specialists At the same time recent new results on nonlinear geostrophic adjustment nonlinear waves and equatorial dynamics including some exact results on the existence of the slow manifold wave breaking and nonlinear wave solutions are presented for the first time in a systematic manner Incorporates analytical numerical and experimental approaches in the geophysical fluid dynamics context Combination of essentials in GFD of the description of analytical numerical and experimental methods tutorial part and new results obtained by these methods original part Provides the link between GFD and mechanics averaging method the method of normal forms GFD and nonlinear physics shocks solitons modons anomalous transport periodic nonlinear waves *Instabilities and Nonequilibrium Structures VI* E. Tirapegui, Javier Martínez, Rolando Tiemann, 2012-12-06 This book contains two introductory papers on important topics of nonlinear physics The first one by M San Miguel et al refers to the effect of noise in nonequilibrium systems The second by M E Brachet is a modern introduction to turbulence in fluids The material can be very useful for short courses and is presented accordingly The authors have made their texts self contained The volume also contains a selection of the invited seminars given at the Sixth International Workshop on Instabilities and Nonequilibrium Structures Audience This book should be of interest to graduate students and scientists interested in the fascinating problems of nonlinear physics *Semiclassical Theory of Mesoscopic Quantum Systems* Klaus Richter, 1999-11-22 This book describes manifestations of classical dynamics and chaos in the quantum properties of mesoscopic systems During the last two decades mesoscopic physics has evolved into a rapidly progressing and exciting interdisciplinary field of physics The first part of the book deals with integrable and chaotic classical dynamics with particular emphasis on the semiclassical description of spectral correlations thermodynamic properties and linear response functions The main part shows applications to prominent observables in the mesoscopic context **New Trends in Nuclear Collective Dynamics**

Yasuhisa Abe, Hisashi Horiuchi, Kenichi Matsuyanagi, 2012-12-06 New Trends in Nuclear Collective Dynamics emphasizes research toward understanding collective and statistical aspects of nuclear dynamics Well known lecturers from centers of nuclear research present reviews of recent developments The topics covered are order and chaos in finite quantum systems dissipation in heavy ion collisions collective motions in warm nuclei time dependent mean field theory with collision terms nuclear fission and multi dimensional tunneling large scale collective motion A Trajectory Description of Quantum

Processes. I. Fundamentals Ángel S. Sanz, Salvador Miret-Artés, 2012-03-27 Trajectory based formalisms are an intuitively appealing way of describing quantum processes because they allow the use of classical concepts Beginning at an introductory level suitable for students this two volume monograph presents 1 the fundamentals and 2 the applications of the trajectory description of basic quantum processes This first volume is focussed on the classical and quantum background necessary to understand the fundamentals of Bohmian mechanics which can be considered the main topic of this work Extensions of the formalism to the fields of open quantum systems and to optics are also proposed and discussed

Coherent atomic matter waves - Ondes de matiere coherentes R. Kaiser, C. Westbrook, F. David, 2007-07-03 Progress in atomic physics has been so vigorous during the past decade that one is hard pressed to follow all the new developments In the early 1990s the first atom interferometers opened a new field in which we have been able to use the wave nature of atoms to probe fundamental quantum mechanics questions as well as to make precision measurements Coming fast on the heels of this development was the demonstration of Bose Einstein condensation in dilute atomic vapors which intensified research interest in studying the wave nature of matter especially in a domain in which macroscopic quantum effects vortices stimulated scattering of atomic beams are visible At the same time there has been much progress in our understanding of the behavior of waves notably electromagnetic in complex media both periodic and disordered An obvious topic of speculation and probably of future research is whether any new insight or applications will develop if one examines the behavior of de Broglie waves in analogous situations Finally our ability to manipulate atoms has allowed us not only to create macroscopically occupied quantum states but also to exercise fine control over the quantum states of a small number of atoms This has advanced the study of quantum entanglement and its relation to the theory of measurement and the theory of information The 1990s have also seen an explosion of interest in an exciting potential application of this fine control quantum computation and quantum cryptography Nanotechnology Gregory L. Timp, 2012-12-06 Miniaturization has revolutionized human affairs by making possible inexpensive integrated electronic circuits comprised of devices and wires with sub micrometer dimensions These integrated circuits are now ubiquitous controlling everything from our automobiles to our toasters Continued miniaturization beyond sub micrometer dimensions seems likely And so we are compelled to explore science and technology on a new yet smaller scale the nanometer scale This volume is a survey of the machinery and science of the nanometer scale Its twenty two contributing authors drawn from many different disciplines

including atomic physics microelectronics polymer chemistry and bio physics delineate the course of current research and articulate a vision for the development of the nanometer frontiers in electronics mechanics chemistry magnetics materials and biology They reveal a world thirty years hence where motors are smaller than the diameter of a human hair where single celled organisms are programmed to fabricate materials with nanometer precision where single atoms are used for computation and where quantum chaos is the norm Aimed at the level of comprehension of at least a junior or senior level undergraduate science biology chemistry physics or engineering student the book provides a survey of developments within the breadth of the nanotechnology field The book is thus intended for both students and researchers in tunneling microscopy polymer chemistry bio physics atomic physics electrical engineering mechanical engineering materials science condensed matter physics biology lithography and chaos Mathematical derivations have been minimized but not eliminated The book contains many illustrations some in color

Fundamental Aspects Of Quantum Physics, Proceedings Of The Japan-italy Joint Workshop On Quantum Open Systems, Quantum Chaos And Quantum Measurement Shuichi Tasaki, Luigi Accardi, 2003-02-21 This volume includes new topics such as the stochastic limit approach to nonequilibrium states a new algebraic approach to relativistic nonequilibrium local states classical and quantum features of weak chaos transports in quantum billiards the Welcher Weg puzzle with a decaying atom and the topics related to the quantum Zeno effect The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings

Quantum versus Chaos K. Nakamura, 2006-04-11 Quantum and chaos key concepts in contemporary science are incompatible by nature This volume presents an investigation into quantum transport in mesoscopic or nanoscale systems which are classically chaotic and shows the success and failure of quantal semiclassical and random matrix theories in dealing with questions emerging from the mesoscopic cosmos These traditional theories are critically analysed and this leads to a new direction To reconcile quantum with chaos and to restore genuine temporal chaos in quantum systems a time discrete variant of quantum dynamics is proposed Audience This book will be of interest to graduate students and researchers in physics chemistry and mathematics whose work involves fundamental questions of quantum mechanics in chaotic systems

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