

Selforganization by Nonlinear Irreversible Processes

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Selforganization By Nonlinear Irreversible Processes

Alexander S. Mikhailov



Selforganization By Nonlinear Irreversible Processes:

Selforganization by Nonlinear Irreversible Processes Werner Ebeling, Heinz Ulbricht, 2012-12-06 These Proceedings contain invited lectures presented at the third International Conference on Irreversible Processes and Dissipative Structures in Kiihlungsborn German Democratic Republic in March 1985 These conferences the first of which was held in Rostock in 1977 and the second in Berlin in 1982 are devoted to the study of irreversible processes far from thermal equilibrium and to the phenomena of selforganization The meeting in Kiihlungsborn brought together some 160 mathematicians physicists chemists and biologists from 10 countries who are all interested in the interdisciplinary field of synergetics The main topics of the conference were basic concepts of selforganization and evolution such as entropy instabilities nucleation dissipative structures chaos and turbulence The contributions cover methods from thermodynamics the theory of dynamic systems stochastic and statistic theory the method of Green's functions the fluctuation dissipation theorem etc Several problems are studied in more detail e.g. the kinetics of nucleation especially in finite systems the dynamics of interfaces reaction diffusion systems chemical and biochemical pattern formation and information processing Further several contributions are devoted to the development of the concepts of chaos and turbulence The editors hope that the contributions collected in this volume will provide some new information about the field of selforganization which is in full development now Nonlinear irreversible processes and selforganization Heinz Ulbricht, Reinhard Mahnke, 1989 *Nonlinear Irreversible Processes and Phase Transitions*, 1985 **Irreversible Processes and Selforganization** Werner Ebeling, Heinz Ulbricht, 1989

Analysis and Control of Complex Nonlinear Processes in Physics, Chemistry and Biology L. Schimansky-Geier, 2007 Nonlinear dynamics of complex processes is an active research field with large numbers of publications in basic research and broad applications from diverse fields of science Nonlinear dynamics as manifested by deterministic and stochastic evolution models of complex behavior has entered statistical physics physical chemistry biophysics geophysics astrophysics theoretical ecology semiconductor physics and optics etc This field of research has induced a new terminology in science connected with new questions problems solutions and methods New scenarios have emerged for spatio-temporal structures in dynamical systems far from equilibrium Their analysis and possible control are intriguing and challenging aspects of the current research The duality of fundamental and applied research is a focal point of its main attractivity and fascination Basic topics and foundations are always linked to concrete and precise examples Models and measurements of complex nonlinear processes evoke and provoke new fundamental questions that diversify and broaden the mathematical concepts and tools In return new mathematical approaches to modeling and analysis enlarge the scope and efficiency of applied research

Physics of Self-Organization and Evolution Werner Ebeling, Rainer Feistel, 2011-10-17 This thoroughly updated version of the German authoritative work on self organization has been completely rewritten by internationally renowned experts and experienced book authors to also include a review of more recent literature It retains the original enthusiasm and fascination

surrounding thermodynamic systems far from equilibrium synergetics and the origin of life representing an easily readable book and tutorial on this exciting field The book is unique in covering in detail the experimental and theoretical fundamentals of self organizing systems as well as such selected features as random processes structural networks and multistable systems while focusing on the physical and theoretical modeling of natural selection and evolution processes The authors take examples from physics chemistry biology and social systems and include results hitherto unpublished in English The result is a one stop resource relevant for students and scientists in physics or related interdisciplinary fields including mathematical physics biophysics information science and nanotechnology

Nonequilibrium Phase Transitions in Semiconductors Eckehard Schöll, 2012-12-06 Semiconductors can exhibit electrical instabilities like current runaway threshold switching current filamentation or oscillations when they are driven far from thermodynamic equilibrium This book presents a coherent theoretical description of such cooperative phenomena induced by generation and recombination processes of charge carriers in semiconductors

Asymptotic Methods for the Fokker-Planck Equation and the Exit Problem in Applications Johan Grasman, Onno A., van Herwaarden, 2013-04-17 Asymptotic methods are of great importance for practical applications especially in dealing with boundary value problems for small stochastic perturbations This book deals with nonlinear dynamical systems perturbed by noise It addresses problems in which noise leads to qualitative changes escape from the attraction domain or extinction in population dynamics The most likely exit point and expected escape time are determined with singular perturbation methods for the corresponding Fokker Planck equation The authors indicate how their techniques relate to the It calculus applied to the Langevin equation The book will be useful to researchers and graduate students

Self-Organization of Complex Structures Frank Schweitzer, 1997-07-16 During the past twenty years a broad spectrum of theories and methods have been developed in physics chemistry and molecular biology to explain structure formation in complex systems These methods have been applied to many different fields such as economics sociology and town planning and this book reflects the interdisciplinary nature of complexity and self organisation The main focus is on the emergence of collective phenomena from individual or microscopic interactions Presents a wide ranging overview from fundamental aspects of the evolution of complexity to applications in biology ecology sociology economics and urban structure formation

Self-Organization in Optical Systems and Applications in Information Technology Mikhail A. Vorontsov, Walter B. Miller, 2012-12-06 Contrary to monographs on non linear optics this book concentrates on problems of self organization in various important contexts The reader learns how patterns in non linear optical systems are created and what theoretical methods can be applied to describe them Next various aspects of pattern formation such as associative memory information processing spatio temporal instability photo refraction and so on are treated The book addresses graduate students and researchers in physics and optical engineering

Self-Organization and the City Juval Portugali, 2012-12-06 Cities first came into existence more than five thousand years ago How to deal with these partly fascinating partly frightening creatures of

mankind both practically and intellectually concerns all of us and in particular presents areal challenge to city planners Each historical epoch has had its own par ticular attitudes associated with the Zeitgeist Accordingly the planning and steering of cities were based on quite different criteria But in spite of these differences the concept of planning and steering was and still is the cornerstone of our dealing with cities Nevertheless the planner s dilemma is becoming more and more visible cities and megacities seem to be un plannable In this book Juval Portugali intro duces a new idea Cities are self organizing systems To substantiate his revolutionary concept he uses several interlinked methods On the one hand and to my own delight he employs in his arguments theoretical tools developed in the interdisciplinary field of synergetics On the other hand jointly with his co workers he has performed detailed model calculations on cellular nets It has been a great pleasure and a wonderful experience for me to discuss these concepts with Juval Portugali over a number of years I was repeatedly and deeply impressed by the way he established profound and often surprising links to other fields of science **Instabilities**

and Chaos in Quantum Optics F.Tito Arecchi,Robert G. Harrison,2012-12-06 Of the variety of nonlinear dynamical systems that exhibit deterministic chaos optical systems both lasers and passive devices provide nearly ideal systems for quantitative investigation due to their simplicity both in construction and in the mathematics that describes them In view of their growing technical application the understanding control and possible exploitation of sources of instability in these systems has considerable practical importance The aim of this volume is to provide a comprehensive coverage of the current understanding of optical instabilities through a series of reviews by leading researchers in the field The book comprises nine chapters five on active laser systems and four on passive optically bistable systems Instabilities and chaos in single and multi mode lasers with homogeneously and broadened gain media are presented and the influence of an injected signal loss modulation and also feedback of laser output on this behaviour is treated Both electrically excited and optically pumped gas lasers are considered and an analysis of dynamical instabilities in the emission from free electron lasers are presented Instabilities in passive optically bistable systems include a detailed analysis of the global bifurcations and chaos in which transverse effects are accounted for Experimental verification of degenerative pulsations and chaos in intrinsic bistable systems is described for various optical feedback systems in which atomic and molecular gases and semiconductors are used as the nonlinear media Results for a hybrid bistable optical system are significant in providing an important test of current understanding of the dynamical behaviour of passive bistable systems **Information and Self-Organization** Hermann

Haken,2013-11-11 Complex systems are ubiquitous and practically all branches of science ranging from physics through chemistry and biology to economics and sociology have to deal with them In this book we wish to present concepts and methods for dealing with complex systems from a unifying point of view Therefore it may be of inter est to graduate students professors and research workers who are concerned with theoretical work in the above mentioned fields The basic idea for our unified ap proach stems from that of synergetics In order to find unifying principles we shall focus our attention on those

situations where a complex system changes its macroscopic behavior qualitatively or in other words where it changes its macroscopic spatial temporal or functional structure Until now the theory of synergetics has usually begun with a microscopic or mesoscopic description of a complex system In this book we present an approach which starts out from macroscopic data In particular we shall treat systems that acquire their new structure without specific interference from the outside i e systems which are self organizing The vehicle we shall use is information Since this word has several quite different meanings all of which are important for our purpose we shall discuss its various aspects These range from Shannon information from which all semantics has been exorcised to the effects of information on receivers and the self creation of meaning

Self-Organization During Friction German Fox-Rabinovich, George E. Totten, 2006-09-18 In our present era of nanoscience and nanotechnology new materials are poised to take center stage in dramatically improving friction and wear behavior under extreme conditions Compiled by two eminent experts Self Organization During Friction Advanced Surface Engineered Materials and Systems Design details the latest advances and developments i

Management of Science-Intensive Organizations Ellie Okada, 2021-01-04 This book examines what mechanisms enable science intensive organizations to broaden beneficiaries of science in urban settings Focusing on organizations that constitute urban resilience systems and networks it maps the contributions of academic institutions established multinationals and entrepreneur firms in environmental material and related life sciences It then develops a model of strategy and governance for organizations to invest in and implement new environmental material science projects This book provides researchers with a framework based on management theories of R D and resource allocation for resolving urban issues

Physics of Complex Colloids C. Bechinger, F. Sciortino, P. Zihlerl, 2013-06-24 Colloids are systems comprised of particles of mesoscopic size suspended in a liquid They have recently been attracting increased attention from scientists and engineers due to the fact that they are nowadays present in many industrial products such as paints oil additives electronic ink displays and drugs Colloids also serve as versatile model systems for phenomena and structures from solid state physics surface science and statistical mechanics and can easily be studied using tabletop experiments to provide insight into processes not readily accessible in atomic systems This book presents the lectures delivered at the 2012 Enrico Fermi School Physics of Complex Colloids held in Varenna Italy in July 2012 The school addressed experimental theoretical and numerical results and methods and the lectures covered a broad spectrum of topics from the starting point of the synthesis of colloids and their use in commercial products The lectures review the state of the art of colloidal science in a pedagogical way discussing both the basics and the latest results and this book will serve as a reference for both students and experts in this rapidly growing field

Foundations of Synergetics I Alexander S. Mikhailov, 2012-12-06 This book gives an introduction to the mathematical theory of cooperative behavior in active systems of various origins both natural and artificial It is based on a lecture course in synergetics which I held for almost ten years at the University of Moscow The first volume deals mainly with the problems of

pattern formation and the properties of self organized regular patterns in distributed active systems It also contains a discussion of distributed analog information processing which is based on the cooperative dynamics of active systems The second volume is devoted to the stochastic aspects of self organization and the properties of self established chaos I have tried to avoid delving into particular applications The primary intention is to present general mathematical models that describe the principal kinds of cooperative behavior in distributed active systems Simple examples ranging from chemical physics to economics serve only as illustrations of the typical context in which a particular model can apply The manner of exposition is more in the tradition of theoretical physics than of in mathematics Elaborate formal proofs and rigorous estimates are often replaced the text by arguments based on an intuitive understanding of the relevant models Because of the interdisciplinary nature of this book its readers might well come from very diverse fields of endeavor It was therefore desirable to minimize the required preliminary knowledge Generally a standard university course in differential calculus and linear algebra is sufficient

Foundations of Synergetics II Alexander S. Mikhailov, Alexander Yu. Loskutov, 2012-12-06

This textbook is based on a lecture course in synergetics given at the University of Moscow In this second of two volumes we discuss the emergence and properties of complex chaotic patterns in distributed active systems Such patterns can be produced autonomously by a system or can result from selective amplification of fluctuations caused by external weak noise Although the material in this book is often described by refined mathematical theories we have tried to avoid a formal mathematical style Instead of rigorous proofs the reader will usually be offered only demonstrations the term used by Prof V I Arnold to encourage intuitive understanding of a problem and to explain why a particular statement seems plausible We also refrained from detailing concrete applications in physics or in other scientific fields so that the book can be used by students of different disciplines While preparing the lecture course and producing this book we had intensive discussions with and asked the advice of Prof V I Arnold Prof S Grossmann Prof H Haken Prof Yu L Klimontovich Prof R L Stratonovich and Prof Ya

The Complexity of Dynamical Systems Johan Dubbeldam, Kirk Green, Daan Lenstra, 2011-02-21 Written by recognized experts this edited book covers recent theoretical experimental and applied issues in the growing field of Complex Systems and Nonlinear Dynamics It is divided into two parts with the first section application based incorporating the theory of bifurcation analysis numerical computations of instabilities in dynamical systems and discussing experimental developments The second part covers the broad category of statistical mechanics and dynamical systems Several novel exciting theoretical and mathematical insights and their consequences are conveyed to the reader

Thermodynamics and Pattern

Formation in Biology Ingolf Lamprecht, A. I. Zotin, 2019-07-08 No detailed description available for Thermodynamics and Pattern Formation in Biology

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