

A. S. Mikhailov Anna Leonova

Foundations of Synergetics II

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Foundations Of Synergetics Ii

Igor Grabec, Wolfgang Sachse



Foundations Of Synergetics II:

Foundations of Synergetics II, 1991 Foundations of Synergetics II Alexander S. Mikhailov, Alexander Yu. Loskutov, 2013-03-08 The second edition of this volume has been extensively revised A different version of Chap 7 reflecting recent significant progress in understanding of spatiotemporal chaos is now provided Much new material has been included in the sections dealing with intermittency in birth death models and noise induced phase transitions A new section on control of chaotic behavior has been added to Chap 6 The subtitle of the volume has been changed to better reflect its contents We acknowledge stimulating discussions with H Haken and E Scholl and are grateful to our colleagues M Bar D Battogtokh M Eiswirth M Hildebrand K Krischer and V Tereshko for their comments and assistance We thank M Lubke for her help in producing new figures for this volume Berlin and Moscow A S Mikhailov April 1996 A Yu Loskutov Preface to the First Edition 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

Foundations of Synergetics II Alexander S. Mikhailov, Alexander Yu. Loskutov, 1991 **Foundations of Synergetics II** Alexander Mikhailov, Alexander Yu. Loskutov, 2012-01-19 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 Foundations of Synergetics II Alexander Mikhailov, Alexander Yu. Loskutov, 2011-12-23 The second edition of this volume has been extensively revised A different version of Chap 7 reflecting recent significant progress in understanding of spatiotemporal chaos is now provided Much new material has been included in the sections dealing with intermittency in birth death models and noise induced phase transitions A new section on control of chaotic behavior has been added to Chap 6 The subtitle of the volume has been changed to better reflect its contents We acknowledge stimulating discussions with H Haken and E Scholl and are grateful to our colleagues M Bar D Battogtokh M Eiswirth M Hildebrand K Krischer and V Tereshko for their comments and assistance We thank M Lubke for her help in producing new figures for this volume Berlin and Moscow A S Mikhailov April 1996 A Yu

Loskutov Preface to the First Edition 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 [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* [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 *Nonlinear Nonequilibrium Thermodynamics II* Rouslan L. Stratonovich, 2013-11-11 This two volume work gives the first detailed coherent treatment of a relatively young branch of statistical physics nonlinear nonequilibrium and fluctuational dissipative thermodynamics This area of research has taken

shape rather recently its development began in 1959 The earlier theory linear nonequilibrium thermodynamics is in principle a simple special case of the new theory Despite the fact that the title of the book includes the word nonlinear it also covers the results of linear nonequilibrium thermodynamics The presentation of the linear and nonlinear theories is done within a common theoretical framework that is not subject to the linearity condition The author hopes that the reader will perceive the intrinsic unity of this discipline the uniformity and generality of its constituent parts This theory has a wide variety of applications in various domains of physics and physical chemistry enabling one to calculate thermal fluctuations in various nonlinear systems The book is divided into two volumes Fluctuation dissipation theorems or relations of various types linear quadratic and cubic classical and quantum are considered in the first volume There one encounters the Markov and non Markov fluctuation dissipation theorems FDTs theorems of the first second and third kinds Nonlinear FDTs are less known than their linear counterparts The present second volume of the book deals with the advanced theory It consists of four chapters The connection and interdependence of the material in the various chapters of both volumes are illustrated in the accompanying diagram

Foundations of Synergetics Alexander S. Mikhailov, 1990 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 mathematics Elaborate formal proofs and rigorous estimates are often replaced in 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 Alexander S. Mikhailov, 1991

Synergetic Economics Wei-Bin Zhang, 2013-03-07 Synergetic Economics presents a new advance in analytical economics It deals with problems related to time and change in economic systems including complex aspects such as the effects of nonlinearity instability bifurcation and chaos in economic evolution The author argues that economic systems may run through a hierarchy of instabilities in which more and more structural patterns evolve Such instabilities are caused by changes in the external parameters of the system They may lead to new spatial temporal patterns of the system A number of explicit examples are provided to show how such

behavior can occur in various dynamic economic systems Analytical methods are also presented to cope with nonlinear problems Of particular interest are sudden structural changes the existence of regular and irregular oscillations the role of random factors in economic evolution and the effects of time scales and rates of adjustment of economic variables in economic analysis The author carefully examines the implications of nonlinear phenomena for decision making and for economic development in general

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 Vadiavasova 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 dynamics 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

Synergetics of Measurement, Prediction and Control Igor Grabec, Wolfgang Sachse, 2012-12-06 In this monograph a statistical description of natural phenomena is used to develop an information processing system capable of modeling nonlinear relationships between sensory data The system based on self organized optimal preservation of empirical information applies these relationships for prediction and adaptive control This monograph is written for students scientists and engineers in academia and industry who are interested in experimental work related to the adaptive modeling of natural laws the development of sensory neural networks intelligent control synergetics and informatics No specific knowledge of advanced mathematics is presupposed Examples taken from physics engineering medicine and economics demonstrate the applicability of such intelligent systems

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 Synergetic Computers and Cognition

Haken, 2013-06-29 This book will be of interest to graduate students researchers and teachers in the computer sciences in the cognitive sciences and in physics It provides the reader with a novel approach to the design and study of neural nets The applicability of this approach is shown explicitly by means of realistic examples In addition detailed models of the cognitive abilities of humans are included and compared with the performance of the synergetic computer presented in this book The work presented here would not have been possible without the important help of my coworkers Dr Arne Wunderlin has helped me in many respects over many years and has made essential contributions in particular to the slaving principle of synergetics Drs Michael Bestehorn Rudolf Friedrich and Wolfgang Weimer have applied the methods of synergetics to spontaneous pattern formation in fluids and have further developed these methods Armir Fuchs has not only implemented my algorithm on a VAX computer but has also made his own important contributions in particular to pattern recognition that is invariant with respect to translation rotation and scaling Thomas Ditzinger Richard Haas and Robert H nlinger have contributed within the work on their diploma theses to the application of our approach to a number of problems that are shared by humans and computers in the field of pattern recognition I wish to thank all of them The Dynamics of Complex

Urban Systems Sergio Albeverio, Denise Andrey, Paolo Giordano, Alberto Vancheri, 2007-10-16 In recent years it has become increasingly clear that the dynamics of cities can be best captured by looking at them as complex systems governed by many degrees of freedom interacting on different space and time scales in a non linear fashion The evolution of cities is shaped by internal factors e g decisions taken by institutions and individuals external causes international economic context and by social development The underlying processes can be slow or fast acting locally or globally At a different level both European cities and megacities are magnets for immigrants e g countries which have major economical and political problems leading often to phenomena like marginalization or even ghettization and segregation They are also hotbeds of economic political and cultural activity giving rise among other things to relocation and conversion of industries valuation of land and development of new services These phenomena as qualitative changes are opposed to purely quantitative growth processes They are far from being fully understood nor they are captured in validated and complete urban models For most of urban theory hitherto has been based on the assumption of slowly varying spatial and social structures Only recently these assumptions have been questioned giving rise to models employing dissipative dynamics stochastic cellular automata and multi agent models fractal geometry and evolutionary change models and to further mathematically oriented approaches **Path Integrals For**

Stochastic Processes: An Introduction Horacio Sergio Wio, 2013-01-18 This book provides an introductory albeit solid presentation of path integration techniques as applied to the field of stochastic processes The subject began with the work of Wiener during the 1920 s corresponding to a sum over random trajectories anticipating by two decades Feynman s famous work on the path integral representation of quantum mechanics However the true trigger for the application of these techniques within nonequilibrium statistical mechanics and stochastic processes was the work of Onsager and Machlup in the early 1950 s The last quarter of the 20th century has witnessed a growing interest in this technique and its application in several branches of research even outside physics for instance in economy The aim of this book is to offer a brief but complete presentation of the path integral approach to stochastic processes It could be used as an advanced textbook for graduate students and even ambitious undergraduates in physics It describes how to apply these techniques for both Markov and non Markov processes The path expansion or semiclassical approximation is discussed and adapted to the stochastic context Also some examples of nonlinear transformations and some applications are discussed as well as examples of rather unusual applications An extensive bibliography is included The book is detailed enough to capture the interest of the curious reader and complete enough to provide a solid background to explore the research literature and start exploiting the learned material in real situations remove a

An Introduction To Stochastic Processes And Nonequilibrium Statistical Physics Horacio Sergio Wio, 1994-02-07 The purpose of this textbook is to bring together in a self contained introductory form the scattered material in the field of stochastic processes and statistical physics It offers the opportunity of being acquainted with stochastic kinetic and nonequilibrium processes Although the research techniques in these areas have become standard procedures they are not usually taught in the normal courses on statistical physics For students of physics in their last year and graduate students who wish to gain an invaluable introduction on the above subjects this book is a necessary tool

Statistical Thermodynamics And Stochastic Theory Of Nonequilibrium Systems Werner Ebeling, Igor Sokolov, 2005-09-23 This book presents both the fundamentals and the major research topics in statistical physics of systems out of equilibrium It summarizes different approaches to describe such systems on the thermodynamic and stochastic levels and discusses a variety of areas including reactions anomalous kinetics and the behavior of self propelling particles

Noise in Spatially Extended Systems Jordi Garcia-Ojalvo, Jose Sancho, 2012-12-06 Intended for graduate students and researchers in physics chemistry biology and applied mathematics this book provides an up to date introduction to current research in fluctuations in spatially extended systems It offers a practical introduction to the theory of stochastic partial differential equations and gives an overview of the effects of external noise on dynamical systems with spatial degrees of freedom The text begins with a general introduction to noise induced phenomena in dynamical systems followed by an extensive discussion of analytical and numerical tools needed to get information from stochastic partial differential equations It then turns to particular problems described by stochastic partial differential equations covering a

wide part of the rich phenomenology of spatially extended systems such as nonequilibrium phase transitions domain growth pattern formation and front propagation The only prerequisite is a minimal background knowledge of the Langevin and Fokker Planck equations

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