

A.S. Mikhailov

Foundations of Synergetics I

Distributed Active Systems



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Foundations Of Synergetics I

Alexander S. Mikhailov



Foundations Of Synergetics I:

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 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: Distributed active systems* Alexander S. Mikhailov, 1990

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 I** Alexander S. Mikhailov, Alexander Yu. Loskutov, 1990

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 I Alexander S. Mikhailov, Alexander Yu. Loskutov, 1990 **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 **Foundations of Synergetics** Alexander S. Mikhailov, Alexander Yu Loskutov, 1992

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 non linear 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 Hermann 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 Hnlinger 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

Predictability of Complex Dynamical Systems Yuri A. Kravtsov, James B. Kadtke, 2012-12-06 This is a book for researchers and practitioners interested in modeling prediction and forecasting of natural systems based on nonlinear dynamics It is a practical guide to data analysis and to the development of algorithms especially for complex systems Topics such as the characterization of nonlinear correlations in data as dynamical systems reconstruction of dynamical models from data nonlinear noise reduction and the limits of predictability are discussed The chapters are written by leading experts and consider practical problems such as signal and time series analysis biomedical data analysis financial analysis stochastic modeling human evolution and political modeling The book includes new methods for nonlinear filtering of complex signals new algorithms for signal classification and the concept of the Global Brain

Self-Organization and Clinical Psychology Wolfgang Tschacher, Günter Schiepek, Ewald J. Brunner, 2012-12-06 Self organization and clinical psychology signals the advent of a new paradigm in psychology Physicists neuroscientists and individual and group therapists have joined forces to elucidate the new and exciting advances that are being achieved by applying the concepts of non linear dynamics and self organization to the human nervous system and the mind

Nonlinear Nonequilibrium Thermodynamics I Rouslan L. Stratonovich, 2012-12-06 This book gives the first detailed coherent treatment of a relatively young branch of statistical physics nonlinear nonequilibrium and fluctuation dissipative thermodynamics This area of research has taken

shape fairly 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 this 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 and 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 Here one encounters the Markov and non Markov fluctuation dissipation theorems FDTs theorems of the first second and third kinds Nonlinear FDTs are less well known than their linear counterparts **Modelling the Dynamics of Biological Systems** Erik Mosekilde, Ole G. Mouritsen, 2012-12-06

The development of a proper description of the living world today stands as one of the most significant challenges to physics A variety of new experimental techniques in molecular biology microbiology physiology and other fields of biological research constantly expand our knowledge and enable us to make increasingly more detailed functional and structural descriptions Over the past decades the amount and complexity of available information have multiplied dramatically while at the same time our basic understanding of the nature of regulation behavior morphogenesis and evolution in the living world has made only modest progress A key obstacle is clearly the proper handling of the available data This requires a stronger emphasis on mathematical modeling through which the consistency of the adopted explanations can be checked and general principles may be extracted As an even more serious problem however it appears that the proper physical concepts for the development of a theoretically oriented biology have not hitherto been available Classical mechanics and equilibrium thermodynamics for instance are inappropriate and useless in some of the most essential biological contexts Fortunately there is now convincing evidence that the concepts and methods of the newly developed fields of nonlinear dynamics and complex systems theory combined with irreversible thermodynamics and far from equilibrium statistical mechanics will enable us to move ahead with many of these problems *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 a real challenge to city planners Each historical epoch has had its own particular 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 unplannable In this book Juval Portugali introduces 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

Neural Networks Raul Rojas, 2013-06-29 Neural networks are a computing paradigm that is finding increasing attention among computer scientists In this book theoretical laws and models previously scattered in the literature are brought together into a general theory of artificial neural nets Always with a view to biology and starting with the simplest nets it is shown how the properties of models change when more general computing elements and net topologies are introduced Each chapter contains examples numerous illustrations and a bibliography The book is aimed at readers who seek an overview of the field or who wish to deepen their knowledge It is suitable as a basis for university courses in neurocomputing

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 *Emergence of Dynamical Order* Susanna C. Manrubia, Alexander S. Mikhailov, Damian H. Zannette, 2004 Large populations of interacting active elements periodic or chaotic can undergo spontaneous transitions to dynamically ordered states These collective states are characterized by self organized coherence revealed by full mutual synchronization of individual dynamics or the formation of multiple synchronous clusters Such self organization phenomena are essential for the functioning of complex systems of various origins both natural and artificial This book provides a detailed introduction to the theory of collective synchronization phenomena in large complex systems Transitions to dynamical clustering and

synchronized states are systematically discussed. Such concepts as dynamical order parameters, glass-like behavior and hierarchical organization are presented.

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.

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Foundations Of Synergetics I Introduction

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