

Synergetics

Far from Equilibrium

Editors:

A. Pacault and C. Vidal



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Synergetics Far From Equilibrium

A. Pacault, Christian Vidal



Synergetics Far From Equilibrium:

Synergetics A. Pacault, C. Vidal, 2012-12-06 This volume gathers most of the lectures and communications presented at the meeting held in Bordeaux from the 27th to the 29th of September and entitled Far from equilibrium instabilities and structures This meeting is part of a series of several other interdisciplinary conferences such as Elmau 1972 London 1974 Dortmund 1976 Elmau 1977 Tokyo 1978 The old science classification scheme proposed by Auguste Comte tends to be every day a bit more blurred out one gives here if needed one additional illustration of this trend The three key words far from equilibrium instabilities and structures best illustrate the new concepts which emerge from the description of the dynamics of various systems relevant to many different research areas Laser emission chemical reactions fluid motions exhibit very particular phenomena when under appropriate external action they occur far from equilibrium These proceedings include the experimental description of such phenomena as well as theoretical attempts in understanding them Most of the topics investigated here belong to the domains of physics and chemistry but one should be careful not to underestimate the underlying potential biological interest If the study of simple systems e.g. described by a few variables has been quite successful for several centuries the recent bearing of our attention on complex systems constitutes a genuine epistemological breakthrough bridging the gap which used to exist between the sciences and the humanism

Synergetics. Far from Equilibrium, 1980 *Synergetics*, **Synergetics, Far from Equilibrium** A. Pacault, Christian Vidal, 1979

Synergetics, Far from Equilibrium, 1979 **Synergetics** Hermann Haken, 2013-11-11 This book is a reprint edition that comprises two titles namely *Synergetics An Introduction* Nonequilibrium Phase Transitions and Self Organization in Physics Chemistry and Biology and *Advanced Synergetics* Instability Hierarchies of Self Organizing Systems and Devices The reason for this publication is two fold Since synergetics is a new type of interdisciplinary field initiated by the author in 1969 the basic ideas developed in these volumes are of considerable theoretical interest But much more than this the methods and even the concrete examples presented in these books are still highly useful for graduate students professors and even for researchers in this fascinating field The reason lies in the following facts Synergetics deals with complex systems i.e. systems that are composed of many individual parts that are able to spontaneously form spatial temporal or functional structures by means of self organization Such phenomena occur in many fields ranging from physics chemistry and biology to economy and sociology More recent areas of application have been found in medicine and psychology where the great potential of the basic principles of synergetics can be unearthed Further applications have become possible in informatics for instance the designing of new types of computers and in other fields of engineering

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

Synergetics of Cognition Hermann Haken, Michael Stadler, 2012-12-06 This book presents the invited lectures given at the International Symposium on Synergetics of Cognition held at SchloB Elmau Bavaria Fed Rep of Germany June 4 8 1989 The understanding of the processes underlying cognition is certainly one of the most challenging and difficult problems confronting the human mind It is an enterprise that requires the cooperation of scientists from fields ranging from the neurosciences and psychology through biology to the computer sciences physics and mathematics The papers included in this volume reflect this joint effort As will be evident there is a remarkable convergence of ideas stemming from various fields for instance the earlier ideas on Gestalt theory celebrate a come back and remarkable analogies are being established with modern concepts of self organization as dealt with in the interdisciplinary field of synergetics The individual topics range from the microscopic level where new exciting results on specific oscillations of neural activity are reported to computer simulations of perception and finally psychological experiments at the macroscopic level We hope that this book will convey to its readers the same enthusiasm that was felt by the participants of the symposium We wish to thank Mrs U Funke for the excellent organisation of the symposium and the Volkswagen Stiftung Hannover for its financial support We are furthermore grateful to Christoph Stadler and Zora Franko for their help in compiling the name and subject indexes Finally we wish to thank Springer Verlag in particular Dr Angela Lahee for the excellent cooperation

Nonlinear Phenomena in Chemical Dynamics C. Vidal, A. Pacault, 2012-12-06 An international conference titled Nonlinear Phenomena in Chemical Dynamics was held in Bordeaux on September 7 11 1981 The present volume contains the text of lectures and abstracts of posters presented during the meeting This conference is part of a series of scientific multidisciplinary meetings in which chemistry is involved at various levels Amongst the most recent ones let us mention Aachen 1979 Bielefeld 1979 New York 1979 Elmau 1981 In addition this meeting is a direct extension of the first one that took place in Bordeaux in 1978 on the topic Far from equilibrium instabilities and structures at the conclusions of which we could write of Far from Equilibrium Springer Series in Synergetics

Vol 3 The three key words far from equilibrium instabilities and structures best illustrate the new concepts which emerge from the description of the dynamics of various systems relevant to many different research areas The present proceedings show how much these remarks have remained true even though substantial progress has been achieved during the three last years To get a deeper experimental knowledge of open reacting systems to model and simulate reaction diffusion systems to develop the mathematical theory of dynamical systems these are the main direction in current investigations Neural and Synergetic Computers Hermann Haken, 2012-12-06 Neural and Synergetic Computers deals with basic aspect of this rapidly developing field Several contributions are devoted to the application of basic concepts of synergetics and dynamic systems theory to the construction of neural computers Further topics include statistical approaches to neural computers and their design for example by sparse coding perception motor control and new types of spatial multistability in lasers **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 dynamic 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 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 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

Foundations of Synergetics Alexander S. Mikhailov,1991 *Polish Journal of Chemistry* ,1930

Concepts and Models of a Quantitative Sociology W. Weidlich,G. Haag,2012-12-06 While the volumes hitherto published in the Springer Series in Synergetics have been devoted almost exclusively to the self organized formation of structures in physics chemistry and biology the present monograph by Weidlich and Haag deals with the formation of structures or patterns in society At first glance it would seem a daring enterprise to deal with the complex processes in society using concepts and methods first developed in physics But over the past decade it has been shown that there is a large class of phenomena in a variety of fields to which unifying concepts can be applied This is particularly true of situations in which a system composed of many parts or individuals acquires a new structure on macroscopic scales Indeed this is the definition of synergetics which I formulated more than a decade ago and which formed the basis of my survey on the profound analogies in the behaviour of complex systems including those of sociology H Haken *Synergetics An Introduction* Volume 1 of this series As I have pointed out on many occasions the universal validity of these concepts is neither accidental nor is it caused by a mere extension of physical rules to other fields but is instead a consequence of deep rooted structural properties of systems of interacting parts which are due to rigorous mathematical laws Generally speaking concepts and methods originally used in physics can be applied to sociological phenomena in two ways

Quantum Noise Crispin W. Gardiner,1991 **Dimensions and Entropies in Chaotic Systems** Gottfried Mayer-Kress,1986 [Reviews in Global Analysis, 1980-86 as Printed in Mathematical Reviews](#) ,1988 *Nonlinear Nonequilibrium Thermodynamics II* Rouslan L. Stratonovich,1994-05-16 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

Experimental and Theoretical Studies of an Oscillatory Combustion Reaction Spencer A. Pugh, 1985

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