

# Synergetics

Far from Equilibrium

Editors:

A. Pacault and C. Vidal



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# Synergetics Far From Equilibrium Springer Series In Synergetics Volume 3

**Lui Lam**



### **Synergetics Far From Equilibrium Springer Series In Synergetics Volume 3:**

*Hermann Haken: From the Laser to Synergetics* Bernd Kröger, 2014-11-25 Hermann Haken born 1927 is one of the fathers of the quantum mechanical laser theory formulated between 1962 and 1966 in strong competition with American researchers. Later on he created Synergetics, the science of cooperation in multicomponent systems. The book concentrates on the development of his scientific work during the first thirty five years of his career. In 1970 he and his doctoral student Robert Graham were able to show that the laser is an example of a nonlinear system far from thermal equilibrium that shows a phase transition like behavior. Subsequently this insight opened the way for the formulation of Synergetics. Synergetics is able to explain how very large systems show the phenomenon of self organization that can be mathematically described by only very few order parameters. The results of Haken's research were published in two seminal books: *Synergetics* 1977 and *Advanced Synergetics* 1983. After the year 1985 Haken concentrated his research on the macroscopic foundation of Synergetics. This led him towards the application of synergetic principles in medicine, cognitive research and finally in psychology. A comprehensive bibliography of Hermann Haken's publications, nearly 600 numbers, is included in the book.

*Synergetics* Hermann Haken, 2013-11-11 Over the past years the field of synergetics has been mushrooming. An ever increasing number of scientific papers are published on the subject and numerous conferences all over the world are devoted to it. Depending on the particular aspects of synergetics being treated, these conferences can have such varied titles as Nonequilibrium, Nonlinear, Statistical Physics, Self Organization, Chaos and Order, and others. Many professors and students have expressed the view that the present book provides a good introduction to this new field. This is also reflected by the fact that it has been translated into Russian, Japanese, Chinese, German, and other languages, and that the second edition has also sold out. I am taking the third edition as an opportunity to cover some important recent developments and to make the book still more readable. First, I have largely revised the section on self organization in continuously extended media and entirely rewritten the section on the Benard instability. Second, because the methods of synergetics are penetrating such fields as economics, I have included an economic model on the transition from full employment to underemployment, in which I use the concept of nonequilibrium phase transitions developed elsewhere in the book. Third, because a great many papers are currently devoted to the fascinating problem of chaotic motion, I have added a section on discrete maps. These maps are widely used in such problems and can reveal period doubling, bifurcations, intermittency, and chaos. *Mathematical Models of Chemical Reactions* Péter Érdi, János Tóth, 1989 ***Advanced Synergetics*** Hermann Haken, 2012-12-06 This text on the interdisciplinary field of synergetics will be of interest to students and scientists in physics, chemistry, mathematics, biology, electrical, civil, and mechanical engineering, and other fields. It continues the outline of basic concepts and methods presented in my book *Synergetics: An Introduction*, which has by now appeared in English, Russian, Japanese, Chinese, and German. I have written the present book in such a way that most of it can be read independently of my previous book, though occasionally

some knowledge of that book might be useful But why do these books address such a wide audience Why are instabilities such a common feature and what do devices and self organizing systems have in common Self organizing systems acquire their structures or functions without specific interference from outside The differentiation of cells in biology and the process of evolution are both examples of self organization Devices such as the electronic oscillators used in radio transmitters on the other hand are man made But we often forget that in many cases devices function by means of processes which are also based on self organization In an electronic oscillator the motion of electrons becomes coherent without any coherent driving force from the outside the device is constructed in such a way as to permit specific collective motions of the electrons Quite evidently the dividing line between self organizing systems and man made devices is not at all rigid

**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 cf 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

**Stochastic Nonlinear Systems in Physics, Chemistry, and Biology** L. Arnold, R. Lefever, 2012-12-06 This book contains the invited papers of the interdisciplinary workshop on Stochastic Nonlinear Systems in Physics Chemistry and Biology held at the Center for Interdisciplinary Research ZIF University of Bielefeld West Germany October 5-11 1980 The workshop brought some 25 physicists chemists and biologists who deal with stochastic phenomena and about an equal number of mathematicians who are experts in the theory of stochastic processes together The Scientific Committee consisted of L Arnold Bremen A Dress Bielefeld W Horsthemke Brussels T Kurtz Madison R Lefever Brussels G Nicolis Brussels and V Wihstutz Bremen The main topics of the workshop were the transition from deterministic to stochastic behavior external noise and noise induced transitions internal fluctuations phase transitions and irreversible thermodynamics and on the mathematical side approximation of stochastic processes qualitative theory of stochastic systems and space time processes The workshop was sponsored by ZIF Bielefeld and by the Universities of Bremen and Brussels We would like to thank the staff of ZIF and H Crauel and M Ehrhardt Bremen

for the perfect organization and their assistance In addition our thanks go to Professor H Haken for having these Proceedings included in the Series in Synergetics Bremen and Brussels L Arnold and R Lefever December 1980 v Contents Part I Introduction From Deterministic to Stochastic Behavior On the Foundations of Kinetic Theory By B Misr and I Prigogine With 1 Figure

*Synergetics of the Brain* E. Basar, H. Flohr, Hermann Haken, A. J. Mandell, 2012-12-06 Synergetics may be considered as an interdisciplinary effort dealing with the general problem of how science can cope with complex systems The preceding symposia on synergetics were devoted to systems of physics chemistry and partly also biology and sociology It was possible to develop adequate concepts to describe and even to calculate evolving macroscopic spatial temporal and functional structures which emerge through self organization of the individual parts of the systems under consideration This book contains the invited papers presented at the Symposium on the Synergetics of the brain Schloss Elmau Bavaria May 2 to 7 1983 The inclusion of this topic in the synergetics enterprise represents a big step towards a treatment of complex systems Most probably the human brain is the most complex system we know of As the organizers believe this symposium provides the reader with a good cross section of experimental results and theoretical approaches to cope with the complex problems of structure and function of the brain It was generally felt that such a joint meeting between experimentalists and theoreticians is of great importance for future development of this field Modern experimental methods e g multielectrode derivations allow or will allow us in short to collect huge amounts of data Similarly high speed computers will flood us with an enormous number of outputs once the basic model equations have been chosen

*Synergetics — From Microscopic to Macroscopic Order* E. Frehland, 2012-12-06 This volume contains the papers presented at the International Symposium on Synergetics From Microscopic to Macroscopic Order held at the Wissenschaftskolleg zu Berlin Institute for Advanced Study Berlin on July 4-8 1983 Furthermore it contains a contribution of T Ohta who unfortunately could not participate in this meeting on the evolution of multigene families The papers discuss the evolution and the function of ordered structures from small microscopic scales up to large macroscopic dimensions On the one hand these structures derive from physical or biological systems on the other hand they also affect economic sociological and philosophical questions I would like to thank the Wissenschaftskolleg zu Berlin for the extraordinary support and hospitality during my one year's stay there as a fellow which made the planning preparation and organization of this symposium possible I would also like to acknowledge the work of B Fritsch and D Dorner who actively participated in this undertaking I am grateful to Professor Haken the founder of synergetics whose participation in the planning and styling of the concept of the conference was essential I am especially thankful to Mrs U Monigatti for her indefatigable help with the preparation and organization of the conference The financial support was provided by the Deutsche Forschungsgemeinschaft Berlin November 1983 E Frehland Contents Some Introductory Remarks on Synergetics By H Haken

**Dynamic Decision Theory** G. Haag, 2012-12-06 Choice processes appear in all spheres of society Hitherto ruling paradigms in the modelling of choice problems have presumed a competitive

general equilibrium which however proves insufficient for dynamic processes This contribution aims at providing a general coherent and closed framework for the dynamic modelling of decision processes It was one of my main interests to build a bridge between the pure model building concepts and their practical applications Therefore all given examples are related to empirical work Solution algorithms for the estimation of trend parameters as well as the numerical simulation in concrete applications therefore play a central role in this contribution Friendly relations with a number of colleagues from many universities in Europe and the U S have emerged during the different applications I wish to thank all of them The international cooperations were mainly initiated and supported by conferences and workshops organized and financed by the International Institute for Applied Systems Analysis IIASA the Istituto Ricerche Economiche Sociali Del Piemonte IRES the Institut National D Etudes Demographiques INED the Centre for Regional Science Research Umeå CERUM and the Projets de Cooperation et D Echange avec France Procop Special thanks go to the Volkswagen Stiftung for financial support of this work over the years Thanks also go in particular to my friend and mentor Prof W Weidlich for his encouragement and for the many suggestions he made in fruitful discussions and common work that have taken place over the years

**Dissipative Systems in Quantum Optics** R. Bonifacio, 2012-12-06 In studying the radiation matter interaction one can take two different approaches The first is typical of spectroscopy one considers the interaction between radiation and a single atom i.e. one studies those phenomena in which the presence of other atoms is irrelevant The other attitude consists in contrast in studying those phenomena which arise just from the simultaneous presence of many atoms In fact all the atoms interact with the same electromagnetic field under suitable conditions this situation creates strong atom atom correlations which in turn give rise to a cooperative behavior of the system as a whole Cooperative means that the overall behavior is quite different from the superposition of the effects arising from single atoms and is completely unpredictable if one neglects the coupling between the atoms induced by their common electromagnetic field This book contains five complete and up to date contributions on the theory and experiments of three coherence effects in radiation matter interaction resonance fluorescences optical bistability and superfluorescence They have raised in creasing interest in recent years from both a fundamental and an applicative view point Even if their phenomenology appears completely different these effects belong in the same book because they are striking examples of open systems driven far from thermal equilibrium as those considered in Haken's synergetics and in Prigogine's theory of dissipative structures This aspect is discussed in the introductory chapter in which we outline the basic physics and the essential features which unify these three effects

*Numerical Methods in the Study of Critical Phenomena* J. Della Dora, J. Demongeot, B. Lacolle, 2012-12-06 This volume contains most of the lectures presented at the meeting held in Carry le nd Rouet from the 2 to the 4th June 1980 and entitled Numerical Methods in the Study of Critical Phenomena Scientific subjects are becoming increasingly differentiated and the number of journals and meetings devoted to them is continually increasing Thus it has become very difficult for the non specialist to approach

subjects with which he is not familiar Hence the purpose of our meeting was to bring together scientists from different disciplines to study a common subject and to stimulate discussion between participants We hope this goal was reached The lectures are grouped in five chapters and inside the first and the second chapter under two headings In each group they are classified in alphabetical order by author We are pleased to publish these Proceedings in a series whose multidisciplinary character has been emphasized from the beginning We are indebted to all who provided us with their help particularly to Mrs A Litman of the Centre International de Rencontres Mathematiques at Luminy C I R M whose kindness and efficiency are well known from the practical point of view the meetings were organized within the scientific framework of the G I S No 19 C N R S with the participation of the University of Grenoble *Probability, Statistical Optics, and Data Testing* B.R.

Frieden, 2012-12-06 A basic skill in probability is practically demanded nowadays in many branches of optics especially in image science On the other hand there is no text presently available that develops probability and its companion fields stochastic processes and statistics from the optical perspective Short of a book a chapter was recently written for this purpose see B R Frieden ed *The Computer in Optical Research Topics in Applied Physics Vol 41* Springer Berlin Heidelberg New York 1980 Chap 3 Most standard texts either use illustrative examples and problems from electrical engineering or from the life sciences The present book is meant to remedy this situation by teaching probability with the specific needs of the optical researcher in mind Virtually all the illustrative examples and applications of the theory are from image science and other fields of optics One might say that photons have replaced electrons in nearly all considerations here We hope in this manner to make the learning of probability a pleasant and absorbing experience for optical workers Some of the remaining applications are from information theory a concept which complements image science in particular As will be seen there are numerous tie ins between the two concepts Students will be adequately prepared for the material in this book if they have had a course in calculus and know the basics of matrix manipulation *Physics of Bioenergetic Processes* L. A.

Blumenfeld, 2012-12-06 According to its definition synergetics is concerned with the cooperation of individual parts of a system that produces macroscopic temporal spatial or functional structures A good deal of the volumes published within this series dealt with the formation of truly macroscopic structures which we can see with our eyes A common scheme could be developed to understand the formation of many patterns through self organization In particular we have to use concepts which go beyond conventional thermodynamics New ideas became crucial We have to study kinetic processes and often few highly excited degrees of freedom play the decisive role in the evolution of structures Over the past years it has turned out that quite similar lines of approach apply to a world which at first sight would be classified as microscopic That world consists of processes in which biomolecules are involved An important example for the problems occurring there is provided by Manfred Eigen's theory of evolution of life at the molecular level of his contribution to Volume 17 of this series Another important example has been provided by Blumenfeld's book on problems of biological physics Vol 7 of this series There it was

proposed to treat biological molecules as machines which in a certain sense work through macroscopic degrees of freedom

**Physical and Biological Processing of Images** O. J. Braddick, A. C. Sleight, 2012-12-06 This book consists of papers presented at an international symposium sponsored and organised by The Rank Prize Funds and held at The Royal Society London on 27-29 September 1982. Since the inception of the Funds the Trustees and their Scientific Advisory Committee on Optoelectronics have considered that the scope of optoelectronics should extend to cover the question of how the eye transduces and processes optical information. The Funds have aimed to organise symposia on topics which because of their interdisciplinary nature were not well covered by other regular international scientific meetings. It was therefore very appropriate that the 1982 symposium should be on Physical and Biological Processing of Images. The purpose of the symposium was to bring together scientists working on the physiology and psychology of visual perception with those developing machine systems for image processing and understanding. The papers were planned in such a way as to emphasise questions of how image analysing systems can be organised as well as the principles underlying them rather than the detailed biophysics and structure of sensory systems or the specific design of hardware devices. As far as possible related topics in biological and artificial systems were considered side by side.

**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

Instabilities, Bifurcations, and Fluctuations in Chemical Systems L. E. Reichl, W. C. Schieve, 1982-09-01 Twentieth century research in the field of chemical pattern formation saw extraordinary progress due to the pathbreaking contributions of Nobel laureate Ilya Prigogine and his co-workers. Evidence exists that the dissipative structures studied by Prigogine and his colleagues may play a dominant role in the processes of self-organization of biological systems, the fundamental phenomena that govern all life forms. Brought together in this valuable volume are topical papers from this research. Important aspects of nonlinear chemical pattern formation, dissipative structures in chemical, biochemical, and geological systems are surveyed by leading scientists in the field of nonlinear chemistry. Topics covered include experimental observations of pattern formation in a variety of systems, bifurcation theory and analysis of nonlinear chemical rate equations and the stochastic theory of nonlinear chemical reactions. Of particular interest are the studies of the effects of electric fields on the determination of nonequilibrium states of chemical systems.

*Statistical Physics I* M. Toda, R. Kubo, N. Saito, 2012-12-06 This first volume of Statistical Physics is an introduction to the theories of equilibrium statistical mechanics, whereas the second volume Springer Ser Solid State Sci Vol 31 is devoted to non-equilibrium theories. Particular emphasis is placed on fundamental principles and basic concepts and ideas. We start with physical examples of probability and kinetics and then describe the general principles of statistical mechanics with applications to quantum statistics, imperfect gases, electrolytes, and phase transitions, including critical phenomena. Finally, ergodic problems, the mechanical basis of statistical mechanics, are presented. The original text was written in Japanese as a volume of the Iwanami



Series in Fundamental Physics supervised by Professor H Yukawa The first edition was published in 1973 and the second in 1978 The English edition has been divided into two volumes at the request of the publisher and the chapter on ergodic problems which was at the end of the original book is included here as Chapter 5 Chapters 1 2 3 and part of Chapter 4 were written by M Toda and Chapters 4 and 5 by N Saito More extensive references have been added for further reading and some parts of the final chapters have been revised to bring the text up to date It is a pleasure to express my gratitude to Professor P Fulde for his detailed improvements in the manuscript and to Dr H Lotsch of Springer Verlag for his continued cooperation

**Nonlinear Physics For Beginners: Fractals, Chaos, Solitons, Pattern Formation, Cellular Automata And Complex Systems** Lui Lam,1998-03-31 Almost all real systems are nonlinear For a nonlinear system the superposition principle breaks down The system s response is not proportional to the stimulus it receives the whole is more than the sum of its parts The three parts of this book contains the basics of nonlinear science with applications in physics Part I contains an overview of fractals chaos solitons pattern formation cellular automata and complex systems In Part II 14 reviews and essays by pioneers as well as 10 research articles are reprinted Part III collects 17 students projects with computer algorithms for simulation models included The book can be used for self study as a textbook for a one semester course or as supplement to other courses in linear or nonlinear systems The reader should have some knowledge in introductory college physics No mathematics beyond calculus and no computer literacy are assumed 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 spatiotempo ral 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 Structural Phase Transitions I K.A. Müller,H. Thomas,2012-12-06 With contributions by numerous experts

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