

Problems of Biological Physics (Springer Series in Synergetics)

Blumenfeld, L.

Note: This is not the actual book cover

Problems Of Biological Physics Synergetics Ser Vol 7

Y. Kuramoto



Problems Of Biological Physics Synergetics Ser Vol 7:

Problems of Biological Physics Lev Aleksandrovich Bliumenfel'd, 1981 *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.

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.

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.

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.

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.

Contents

Some Introductory Remarks on Synergetics By H. Haken

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 *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 directions in current investigations.

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 I RES the Institut National D Etudes Demographiques I NED the Centre for Regional Science Research Umej 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

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

Hydrodynamic stability theory A. Georgescu, 2013-04-17 The great number of varied approaches to hydrodynamic stability theory appear as a bulk of results whose classification and discussion are well known in the literature Several books deal with one aspect of this theory alone e g the linear case the influence of temperature and magnetic field large classes of globally stable fluid motions etc The aim of this book is to provide a complete mathematical treatment of hydrodynamic stability theory by combining the early results of engineers and applied mathematicians with the recent achievements of pure mathematicians In order to ensure a more operational frame to this theory I have briefly outlined the main results concerning the stability of the simplest types of flow I have attempted several definitions of the stability of fluid flows with due consideration of the connections between them On the other hand as the

large number of initial and boundary value problems in hydrodynamic stability theory requires appropriate treatments most of this book is devoted to the main concepts and methods used in hydrodynamic stability theory Open problems are expressed in both mathematical and physical terms

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

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

Chemical Oscillations, Waves, and Turbulence Y. Kuramoto, 2012-12-06 This book is intended to provide a few asymptotic methods which can be applied to the dynamics of self-oscillating fields of the reaction-diffusion type and of some related systems Such systems forming cooperative fields of a large number of interacting similar subunits are considered as typical synergetic systems because each local subunit itself represents an active dynamical system

functioning only in far from equilibrium situations the entire system is capable of showing a variety of curious pattern formations and turbulence-like behaviors quite unfamiliar in thermodynamic cooperative fields I personally believe that the nonlinear dynamics deterministic or statistical of fields composed of similar active elements will form an extremely attractive branch of physics in the near future For the study of non equilibrium cooperative systems some theoretical guiding principle would be highly desirable In this connection this book pushes forward a particular physical viewpoint based on the slaving principle The discovery of this principle in non equilibrium phase transitions especially in lasers was due to Hermann Haken The great utility of this concept will again be demonstrated in this book for the fields of coupled nonlinear oscillators

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 increasing interest in recent years from both a fundamental and an applicative viewpoint 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 **Chaos and Statistical Methods** Y. Kuramoto, 2012-12-06 The 6th Kyoto Summer Institute devoted to Chaos and Statistical Mechanics was held from September 12 to 15 1983 at the Research Institute for Mathematical Sciences Kyoto University and at Hotel Kuniso The meeting was aimed at clarifying various aspects of chaotic systems appearing in different scientific disciplines critically examining related mathematical methods developed so far thus preparing for possible breakthroughs among others for the opening of a new period of statistical mechanics of deterministic systems The number of participants was 135 of which 24 were from abroad We believe that the well prepared lecture of each speaker and lively discussions among many participants from various research fields led the meeting to a successful conclusion The 6th KSI was organized by the Research Institute for Fundamental Physics A number of young chaos researchers in Japan also participated actively in the organization We were also in close contact with the organizer of the IUTAM Symposium on Turbulence and Chaotic Phenomena in Fluids Kyoto Kaikan Conference Hall Kyoto September 5 10 1983 This volume contains most of the lectures presented at the 6th KSI We are very grateful to all the authors for their efforts in preparing such excellent manuscripts The 6th KSI was supported by the Ministry of Education Science and Culture and the Yamada Science Foundation The organizing committee acknowledges gratefully their generous financial support Finally thanks are due to Dr M Toya and Miss T Sumide for their invaluable assistance *Anderson Localization* Y. Nagaoka, H. Fukuyama, 2012-12-06 This volume contains the proceedings of the Fourth Taniguchi International Symposium on the Theory of Condensed Matter which was held at Senkari Seminar House of Kwansei Gakuin University in Sanda-shi Japan during the period of 3 8 November 1981 The topic of the symposium was Anderson localization one of the most fundamental problems in condensed matter physics Since Anderson's classic paper was published in 1958 much theoretical and experimental effort has been performed to study the problem of electron localization in a random potential Quite recently Abrahams Anderson Licciardello and Ramakrishnan proposed a scaling theory of the Anderson localization which made it possible to perform microscopic investigations Rapid progress has followed and we are now getting a coherent picture of the behavior of electrons in disordered systems When we organized the symposium we asked Dr Anderson to participate in it and to give a review talk on theoretical aspects of the problem Though he kindly accepted our invitation he could not come due to a sudden illness A review talk was given by Professor Thouless who kindly accepted our request to take the place of Dr Anderson Fortunately Dr Anderson has since recovered from his illness *Self-Organization and Management of Social Systems* H. Ulrich, G.J.B. Probst, 2012-12-06 Self organization of systems belonging to quite different disciplines has been a central topic of synergetics since its beginning I am therefore particularly pleased that Hans Ulrich and Gilbert Probst have not only undertaken to organize an

interdisciplinary meeting on Self Organization and Management of Social Systems but have also edited these articles written by leading scientists after and based upon that symposium While the previous volumes of the Springer Series in Synergetics were mainly devoted to physical chemical and biological systems with only the book by W Weidlich and G Haag dealing with Quantitative Sociology Springer Ser Syn Vol 14 the present volume opens a new perspective As the reader will notice the multitude of facets of self organization is well reflected by various authors belonging to different disciplines and representing different schools of thought When such a wide scope of fields ranging from physics to sociology is covered it is not surprising that the existence of a hiatus between sociology and the natural sciences was felt by some participants

Fluctuations and Sensitivity in Nonequilibrium Systems W. Horsthemke, D. K. Kondepudi, 2012-12-06 This volume contains the invited lectures and a selection of the contributed papers and posters of the workshop on Fluctuations and Sensitivity in Nonequilibrium Systems held at the Joe C Thompson Conference Center University of Texas at Austin March 12-16 1984 The workshop dealt with stochastic phenomena and sensitivity in nonequilibrium systems from a macroscopic point of view During the last few years it has been realized that the role of fluctuations is far less trivial in systems far from equilibrium than in systems under thermodynamic equilibrium conditions It was found that random fluctuations often are a determining factor for the state adopted by macroscopic systems and cannot be regarded as secondary effects of minor importance Further nonequilibrium systems are also very sensitive to small systematic changes in their environment The main aims of the workshop were i to provide scientists with an occasion to acquaint themselves with the state of the art in fluctuation theory and sensitivity analysis ii to provide a forum for the presentation of recent advances in theory and experiment iii to bring together theoreticians and experimentalists in order to delineate the major open problems and to formulate strategies to tackle these problems The organizing committee of the workshop consisted of W Horsthemke O K Kondepudi G Dewel G Nicolis I Prigogine and L Reichl

Problems Of Biological Physics Synergetics Ser Vol 7 Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Problems Of Biological Physics Synergetics Ser Vol 7**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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