

Cooperative Dynamics in Complex Physical Systems

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Cooperative Dynamics In Complex Physical Systems

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Cooperative Dynamics In Complex Physical Systems:

Cooperative Dynamics in Complex Physical Systems Hajime Takayama, 1989-03-29 Many novel cooperative phenomena found in a variety of systems studied by scientists can be treated using the uniting principles of synergetics. Examples are frustrated and random systems, polymers, spin glasses, neural networks, chemical and biological systems, and fluids. In this book, attention is focused on two main problems. First, how local topological constraints (frustrations) can cause macroscopic cooperative behavior; related ideas initially developed for spin glasses are shown to play key roles also for optimization and the modeling of neural networks. Second, the dynamical constraints that arise from the nonlinear dynamics of the systems; the discussion covers turbulence in fluids, pattern formation, and conventional 1/f noise. The volume will be of interest to anyone wishing to understand the current development of work on complex systems, which is presently one of the most challenging subjects in statistical and condensed matter physics.

Cooperative Dynamics in Complex Physical Systems Hajime Takayama, 2012-12-06 Many novel cooperative phenomena found in a variety of systems studied by scientists can be treated using the uniting principles of synergetics. Examples are frustrated and random systems, polymers, spin glasses, neural networks, chemical and biological systems, and fluids. In this book, attention is focused on two main problems. First, how local topological constraints (frustrations) can cause macroscopic cooperative behavior; related ideas initially developed for spin glasses are shown to play key roles also for optimization and the modeling of neural networks. Second, the dynamical constraints that arise from the nonlinear dynamics of the systems; the discussion covers turbulence in fluids, pattern formation, and conventional 1/f noise. The volume will be of interest to anyone wishing to understand the current development of work on complex systems, which is presently one of the most challenging subjects in statistical and condensed matter physics.

Computer Simulation Studies in Condensed Matter Physics III David P. Landau, K.K. Mon, Heinz-Bernd Schüttler, 2012-12-06 The contribution of computer simulation studies to our understanding of the properties of a wide range of condensed matter systems is now well established. The Center for Simulational Physics of the University of Georgia has been hosting a series of annual workshops with the intent of bringing together experienced practitioners in the field as well as relative newcomers to provide a forum for the exchange of ideas and recent results. This year's workshop, the third in the series, was held February 12-16, 1990. These proceedings are a record of the workshop and are published with the goal of timely dissemination of the papers to a wider audience. The proceedings are divided into four parts. The first contains invited papers dealing with simulational studies of classical systems and also includes an introduction to some new simulation techniques. A separate section is devoted to invited papers on quantum systems, including new results for strongly correlated electron and quantum spin models believed to be important for the description of high T_c superconductors. The third part consists of a single invited paper which presents a comprehensive treatment of issues associated with high performance computing, including differences in architectures and a discussion of access strategies. The contributed papers constitute the

final part 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 **Journal of the Physical Society of Japan**, 2000 **Physics of the Human Mind** Ihor Lubashevsky, 2017-02-12 This book tackles the challenging question which mathematical formalisms and possibly new physical notions should be developed for quantitatively describing human cognition and behavior in addition to the ones already developed in the physical and cognitive sciences Indeed physics is widely used in modeling social systems where in particular new branches of science such as sociophysics and econophysics have arisen However many if not most characteristic features of humans like willingness emotions memory future prediction and moral norms to name but a few are not yet properly reflected in the paradigms of physical thought and theory The choice of a relevant formalism for modeling mental phenomena requires the comprehension of the general philosophical questions related to the mind-body problem Plausible answers to these questions are investigated and reviewed notions and concepts to be used or to be taken into account are developed and some challenging questions are posed as open problems This text addresses theoretical physicists and neuroscientists modeling any systems and processes where human factors play a crucial role philosophers interested in applying philosophical concepts to the construction of mathematical models and the mathematically oriented psychologists and sociologists whose research is fundamentally related to modeling mental processes **Slow Dynamics in Condensed Matter** Tōwa Daigaku. International Symposium, 1992 Designed primarily for physicists in condensed matter and some engineers working in polymers this book deals with the subject of slow dynamics in condensed matter 物理学の最前線 物理学の最前線 (Japan), 1972 **Self-organization in Optical Systems and Applications in Information Technology** Mikhail Alekseevich Vorontsov, Walter Blaine Miller, 1995 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

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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 **Journal of Physics A**, 1999 Focuses on fundamental mathematical and computational methods underpinning physics Relevant to statistical physics chaotic and complex systems classical and quantum mechanics classical and quantum integrable systems and classical and quantum field theory **Space-time Organization in Macromolecular Fluids** Fumihiko Tanaka, Masao Doi, Takao Ōta, 1989 Papers of the November 1988 meeting in Hakone Japan present a cross section of the current research in self organizing macromolecular fluids The topics include microphase separation of block copolymers chemical and physical gelation polymer adsorption and polymers in random media and in external fields The emphasis is on theoretical aspects No index Annotation copyrighted by Book News Inc Portland OR *Simulation and Theory of Evolving Microstructures* ASM International. Materials Science Division. Computer Simulation Technical Activity, Minerals, Metals and Materials Society. Fall Meeting, 1990 *Physics Briefs*, 1994 *Quantum Noise* Crispin W. Gardiner, 1991

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