

Nonequilibrium Phase Transitions in Lattice Models

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Nonequilibrium Phase Transitions In Lattice Models:

Nonequilibrium Phase Transitions in Lattice Models Joaquin Marro,Ronald Dickman,1999-05-06 This book provides an introduction to nonequilibrium statistical physics via lattice models Beginning with an introduction to the basic driven lattice gas the early chapters discuss the relevance of this lattice model to certain natural phenomena examining simulation results in detail Later chapters discuss absorbing state transitions and examine a variety of systems subject to dynamic disorder The book discusses the effects of multiparticle rules nonunique absorbing states and conservation laws as well as the use of methods such as mean field theory Monte Carlo simulation and the concept of universality It also includes detailed references and examples using simple representations of nature to describe real systems *Nonequilibrium Phase*

Transitions in Lattice Models Joaquin Marro,Ronald Dickman,2005-09-08 This book provides an introduction to nonequilibrium statistical physics via lattice models Beginning with an introduction to the basic driven lattice gas the early chapters discuss the relevance of this lattice model to certain natural phenomena examining simulation results in detail Later chapters discuss absorbing state transitions and examine a variety of systems subject to dynamic disorder The book discusses the effects of multiparticle rules nonunique absorbing states and conservation laws as well as the use of methods such as mean field theory Monte Carlo simulation and the concept of universality It also includes detailed references and examples using simple representations of nature to describe real systems [Non-Equilibrium Phase Transitions](#) Malte Henkel,Haye Hinrichsen,Sven Lübeck,2008-11-27 This book describes two main classes of non equilibrium phase transitions static and dynamics of transitions into an absorbing state and dynamical scaling in far from equilibrium relaxation behavior and ageing **Absorbing State Transitions in Clean and Disordered Lattice Models** Man Young Lee,2011

Nonequilibrium systems can undergo continuous phase transitions between different steady states These transitions are characterized by collective fluctuations over large distances and long times similar to the behavior of equilibrium critical points They also can be divided into different universality classes according to their critical behavior This dissertation considers two types of nonequilibrium transitions First study concerns absorbing state transitions on a randomly diluted lattice Second study deals with nonequilibrium models with several absorbing states We investigate two specific nonequilibrium lattice models i e the contact process and the generalized contact process by means of both theoretical and computational approaches In section 1 we introduce the basic arguments and theories to support our investigations for both problems In sections 2 and 3 we investigate nonequilibrium phase transitions of the contact process and the generalized contact process on a percolating lattice focusing on the transition across the lattice percolation threshold In this study we show that the interplay between geometric criticality due to percolation and dynamical fluctuations of the nonequilibrium system leads to a new universality class The critical point is characterized by ultra slow activated dynamical scaling and accompanied by strong Griffiths singularities We support our theory by extensive Monte Carlo simulations In sections 4 and 5

we investigate the generalized contact process on one and two dimensional lattices We treat the creation rate of active sites between inactive domains as an independent parameter It turns out that this model has an unusual phase diagram with two different nonequilibrium phase transitions The special point separating them shares some characteristics with a multicritical point For one dimension a small boundary rate takes the system from the directed percolation universality class to the parity conserved class For two dimensions the critical behavior on the generic transition line is of mean field type with logarithmic corrections suggesting that the two dimensional generalized contact process is in the generalized voter universality class

Abstract leaf iv *Nonequilibrium Statistical Physics* Roberto Livi, Paolo Politi, 2017-10-05 A comprehensive and pedagogical text on nonequilibrium statistical physics covering topics from random walks to pattern formation [Lattice Models for Fluctuating Hydrodynamics in Granular and Active Matter](#) Alessandro Manacorda, 2018-07-28 This book investigates the common nature of granular and active systems which is rooted in their intrinsic out of equilibrium behavior with the aim of finding minimal models able to reproduce and predict the complex collective behavior observed in experiments and simulations Granular and active matter are among the most studied systems in out of equilibrium statistical physics The book guides readers through the derivation of a fluctuating hydrodynamic description of granular and active matter by means of controlled and transparent mathematical assumptions made on a lattice model It also shows how a macroscopic description can be provided from microscopic requirements leading to the prediction of collective states such as cooling swarming clustering and the transitions among them The analytical and numerical results shed new light on the physical connection between the local microscopic properties of few particles and the macroscopic collective motion of the whole system

Phase Transitions and Surface Growth in Nonequilibrium Lattice Models Thomas Michael Martynec, 2021 **Field Theory of Non-Equilibrium Systems** Alex Kamenev, 2023-01-05 The physics of non equilibrium many body systems is a rapidly expanding area of theoretical physics Traditionally employed in laser physics and superconducting kinetics these techniques have more recently found applications in the dynamics of cold atomic gases mesoscopic and nano mechanical systems and quantum computation This book provides a detailed presentation of modern non equilibrium field theoretical methods applied to examples ranging from biophysics to the kinetics of superfluids and superconductors A highly pedagogical and self contained approach is adopted within the text making it ideal as a reference for graduate students and researchers in condensed matter physics In this Second Edition the text has been substantially updated to include recent developments in the field such as driven dissipative quantum systems kinetics of fermions with Berry curvature and Floquet kinetics of periodically driven systems among many other important new topics Problems have been added throughout structured as compact guided research projects that encourage independent exploration **Parallel Algorithms and Cluster Computing** Karl Heinz Hoffmann, Arnd Meyer, 2007-06-24

Highperformancecomputinghaschangedthewayinwhichscienceprogresses During the last 20 years the increase in computing

power the development of effective algorithms and the application of these tools in the area of physics and engineering has been decisive in the advancement of our technological world. These abilities have allowed to treat problems with a complexity which had been out of reach for analytical approaches. While the increase in performance of single processes has been immense, the increase of massive parallel computing as well as the advent of cluster computers has opened up the possibilities to study realistic systems. This book presents major advances in high performance computing as well as major advances due to high performance computing. The progress made during the last decade rests on the achievements in three distinct science areas. Open and pressing problems in physics and mechanical engineering are the driving force behind the development of new tools and new approaches in these science areas. The treatment of complex physical systems with frustration and disorder, the analysis of the elastic and non elastic movement of solids as well as the analysis of coupled fluid systems pose problems which are open to a numerical analysis only with state of the art computing power and algorithms. The desire of scientific accuracy and quantitative precision leads to an enormous demand in computing power. Asking the right questions in these areas lead to new insights which have not been available due to other means like experimental measurements. Thesecondareawhichisdecisiveforeffectivehighperformancecomputing is a realm of effective algorithms.

Self-Organized Criticality, Three Decades Later Subhrangshu Sekhar Manna, Attilio L. Stella, Peter Grassberger, Ronald Dickman, 2022-01-28 Phase Transitions Ricard Solé, 2011-07-25 Phase transitions changes between different states of organization in a complex system have long helped to explain physics concepts such as why water freezes into a solid or boils to become a gas. How might phase transitions shed light on important problems in biological and ecological complex systems? Exploring the origins and implications of sudden changes in nature and society, *Phase Transitions* examines different dynamical behaviors in a broad range of complex systems. Using a compelling set of examples from gene networks and ant colonies to human language and the degradation of diverse ecosystems, the book illustrates the power of simple models to reveal how phase transitions occur. Introductory chapters provide the critical concepts and the simplest mathematical techniques required to study phase transitions. In a series of example driven chapters, Ricard Sol shows how such concepts and techniques can be applied to the analysis and prediction of complex system behavior including the origins of life, viral replication, epidemics, language evolution and the emergence and breakdown of societies. Written at an undergraduate mathematical level, this book provides the essential theoretical tools and foundations required to develop basic models to explain collective phase transitions for a wide variety of ecosystems.

Traffic and Granular Flow '05 Andreas Schadschneider, Thorsten Pöschel, Reinhart Kühne, Michael Schreckenberg, Dietrich E. Wolf, 2007-04-20 This book again continues the biannual series of now six conference proceedings which has become a classical reference in traffic and granular research alike. It addresses new developments at the borderline between physics, engineering and computational science. Complex systems where many simple agents be it vehicles or particles give rise to surprising and fascinating

phenomena *Computational Neuroscience: Trends in Research 2004* E. De Schutter, 2004-06-26 The CNS meetings bring together computational neuroscientists representing many different fields and backgrounds as well as many different experimental preparations and theoretical approaches The papers published here range from pure experimental neurobiology to neuro ethology mathematics physics and engineering In all cases the research described is focused on understanding how nervous systems compute The actual subjects of the research include a highly diverse number of preparations modeling approaches and analysis techniques Accordingly this volume reflects the breadth and depth of current research in computational neuroscience taking place throughout the world *Handbook of Optimization in Complex Networks* My T. Thai, Panos M. Pardalos, 2012-01-28 Complex Social Networks is a newly emerging hot topic with applications in a variety of domains such as communication networks engineering networks social networks and biological networks In the last decade there has been an explosive growth of research on complex real world networks a theme that is becoming pervasive in many disciplines ranging from mathematics and computer science to the social and biological sciences Optimization of complex communication networks requires a deep understanding of the interplay between the dynamics of the physical network and the information dynamics within the network Although there are a few books addressing social networks or complex networks none of them has specially focused on the optimization perspective of studying these networks This book provides the basic theory of complex networks with several new mathematical approaches and optimization techniques to design and analyze dynamic complex networks A wide range of applications and optimization problems derived from research areas such as cellular and molecular chemistry operations research brain physiology epidemiology and ecology

Diffusion and Reactions in Fractals and Disordered Systems Daniel ben-Avraham, Shlomo Havlin, 2000-11-02 This book describes diffusion and transport in disordered media such as fractals and random resistor networks **Issues in General Physics Research: 2011 Edition** , 2012-01-09 Issues in General Physics Research 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about General Physics Research The editors have built Issues in General Physics Research 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about General Physics Research in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in General Physics Research 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> *The Nature of Complex Networks* Sergey N. Dorogovtsev, José F. F. Mendes, 2022 The Nature of Complex Networks provides a systematic introduction to the statistical mechanics of complex networks and the different theoretical achievements in the field that are now finding strands in

common The book presents a wide range of networks and the processes taking place on them including recently developed directions methods and techniques It assumes a statistical mechanics view of random networks based on the concept of statistical ensembles but also features the approaches and methods of modern random graph theory and their overlaps with statistical physics This book will appeal to graduate students and researchers in the fields of statistical physics complex systems graph theory applied mathematics and theoretical epidemiology Econophysics of the Kolkata Restaurant Problem and Related Games Bikas K. Chakrabarti, Arnab Chatterjee, Asim Ghosh, Sudip Mukherjee, Boaz Tamir, 2017-07-19 This book provides the first comprehensive introduction to multi agent multi choice repetitive games such as the Kolkata Restaurant Problem and the Minority Game It explains how the tangible formulations of these games using stochastic strategies developed by statistical physicists employing both classical and quantum physics have led to very efficient solutions to the problems posed Further it includes sufficient introductory notes on information processing strategies employing both classical statistical physics and quantum mechanics Games of this nature in which agents are presented with choices from among which their goal is to make the minority choice offer effective means of modeling herd behavior and market dynamics and are highly relevant to assessing systemic risk Accordingly this book will be of interest to economists physicists and computer scientists alike *Handbook of Graphs and Networks* Stefan Bornholdt, Heinz Georg Schuster, 2006-03-06 Complex interacting networks are observed in systems from such diverse areas as physics biology economics ecology and computer science For example economic or social interactions often organize themselves in complex network structures Similar phenomena are observed in traffic flow and in communication networks as the internet In current problems of the Biosciences prominent examples are protein networks in the living cell as well as molecular networks in the genome On larger scales one finds networks of cells as in neural networks up to the scale of organisms in ecological food webs This book defines the field of complex interacting networks in its infancy and presents the dynamics of networks and their structure as a key concept across disciplines The contributions present common underlying principles of network dynamics and their theoretical description and are of interest to specialists as well as to the non specialized reader looking for an introduction to this new exciting field Theoretical concepts include modeling networks as dynamical systems with numerical methods and new graph theoretical methods but also focus on networks that change their topology as in morphogenesis and self organization The authors offer concepts to model network structures and dynamics focussing on approaches applicable across disciplines **Self-Destruction of Complex Systems** Kirill Postoutenko, 2025-01-27 This book is the first attempt to provide a general theory of self destruction in complex systems applicable to natural social and cultural phenomena The contributors work collaboratively to prove that many of the nondistributed complex systems in nature and society sooner or later experience critical development leading to unintended and irreversible self annihilation The individual chapters also show that the relations of such systems to their own distinctiveness and other systems may result in specific communicative

pathologies such as redundancy inflation and noisy signalling which tend to mitigate or reinforce each other depending on circumstances Finally the volume updates some popular models of systemic self destruction from autoimmunity and self organized criticality to imperial overstretch and discusses some prominent cases from supernova explosions to the civil war following the Russian Revolution of 1917 The interdisciplinary style of narration ensures the accessibility of the materials and theories presented for the specialists and students from different fields As such it will appeal to those interested in complexity studies from the areas of sociology history media and communication studies immunology computer science literary criticism cultural studies political science and international relations

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