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Theoretical and Mathematical Physics

Non-Equilibrium Phase Transitions

Absorbing Phase Transitions

Volume I

 Springer

Non Equilibrium Phase Transitions Volume 1 Absorbing Phase Transitions Theoretical And Mathematical Physics

**Katja Lindenberg, Ralf Metzler, Gleb
Oshanin**



Non Equilibrium Phase Transitions Volume 1 Absorbing Phase Transitions Theoretical And Mathematical Physics:

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 **Non-Equilibrium Phase Transitions** Malte Henkel,Haye Hinrichsen,Sven Lübeck,2009-01-15 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

Non-equilibrium Phase Transitions Malte Henkel,Haye Hinrichsen,Sven Lübeck,2017 **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 *Proceedings Of The Julian Schwinger Centennial Conference* Berthold-georg Englert,2019-10-30 The Julian Schwinger Centennial Conference of 2018 assembled many of Schwinger s students colleagues and friends to celebrate this towering figure of twentieth century physics one hundred years after his birth This proceedings volume collects talks delivered on this occasion They cover a wide range of topics all related to Schwinger s rich scientific legacy supplemented by personal recollections about Julian Schwinger the physicist the teacher and the gentleman Also included are an essay of 1985 co authored by Schwinger but not published previously as well as the transcripts of speeches by distinguished colleagues at the 1978 gathering when Schwinger s sixtieth birthday was celebrated

Conformal Invariance: an Introduction to Loops, Interfaces and Stochastic Loewner Evolution Malte Henkel,Dragi Karevski,2012-04-05 Conformal invariance has been a spectacularly successful tool in advancing our understanding of the two dimensional phase transitions found in classical systems at equilibrium This volume sharpens our picture of the applications of conformal invariance introducing non local observables such as loops and interfaces before explaining how they arise in specific physical contexts It then shows how to use conformal invariance to determine their properties Moving on to cover key conceptual developments in conformal invariance the book devotes much of its space to stochastic Loewner evolution SLE detailing SLE s conceptual foundations as well as extensive numerical tests The chapters then elucidate SLE s use in geometric phase transitions such as percolation or polymer systems paying particular attention to surface effects As clear and accessible as it is authoritative this publication is as suitable for non specialist readers and graduate students alike

Stochastic Dynamics and Irreversibility Tânia Tomé,Mário J. de Oliveira,2014-11-26 This textbook presents an exposition of stochastic dynamics and irreversibility It comprises the principles of probability theory and the stochastic dynamics in continuous spaces described by Langevin and Fokker Planck equations and in discrete spaces described by Markov chains and master equations Special concern is given to the study of irreversibility both in systems that evolve to equilibrium and in nonequilibrium stationary states Attention is also given to the study of models displaying phase

transitions and critical phenomena both in thermodynamic equilibrium and out of equilibrium These models include the linear Glauber model the Glauber Ising model lattice models with absorbing states such as the contact process and those used in population dynamic and spreading of epidemic probabilistic cellular automata reaction diffusion processes random sequential adsorption and dynamic percolation A stochastic approach to chemical reaction is also presented The textbook is intended for students of physics and chemistry and for those interested in stochastic dynamics It provides by means of examples and problems a comprehensive and detailed explanation of the theory and its applications

Chemical Kinetics: Beyond The Textbook Katja Lindenberg, Ralf Metzler, Gleb Oshanin, 2019-08-27 Processes involving randomly moving particles which react either upon encounter or via distance dependent reaction rates are ubiquitous in nature A few stray examples are recombination of ions or holes and electrons excitation energy migration and quenching trapping of particles by other species coagulation binding of ligands and proteins to specific sites chemotaxis catalytically induced self propulsion polymerization growth of dendrites or aggregates or nuclei of a new phase Several decades ago it was recognized that the kinetic behavior in some systems with reactions and random transport is strongly affected by many factors which were not taken into account in previous studies These are to name but a few fluctuations in the spatial distributions of the reactants and fluctuations of the reactivity some essentially many particle phenomena effects of anomalous diffusion molecular crowding as well as the internal geometry of the reaction bath Within recent years along with a growing interest in chemical processes occurring in biological systems or cellular environments numerous advances have been made and considerable knowledge has been acquired These seminal contributions are however scattered among many journals and no attempt has been made so far to present a unified picture This book presents a general overview of different contemporary facets of chemical kinetics in a variety of different environments It includes 23 seminal works and reviews on different aspects of reaction processes in chemical physical and biophysical systems both theoretical and experimental

Self-Organized Criticality, Three Decades Later Subhrangshu Sekhar Manna, Attilio L. Stella, Peter Grassberger, Ronald Dickman, 2022-01-28 **Viscoelastic Interfaces Driven in Disordered Media** François P. Landes, 2015-07-09 This book offers an in depth study of two well known models of avalanche dynamics modified minimally by the inclusion of relaxation Many complex systems respond to continuous inputs of energy by accumulation of stress over time interrupted by sudden energy releases called avalanches The first model studied is the viscoelastic interface driven over disorder which is shown to display the fundamental features of friction In the mean field limit the friction force derived semi analytically is compatible with laboratory experiments displaying both velocity weakening and contact aging In two dimensions large scale numerical simulations are in good agreement with the basic features of real earthquakes Gutenberg Richter Law aftershock migration The second model is a non Markovian variant of Directed Percolation in which we observe that the universality class is only partly modified by relaxation a promising finding with respect to our first model

Non-Equilibrium Phase Transitions Malte

Henkel, Michel Pleimling, 2011-01-19 The importance of knowledge consists not only in its direct practical utility but also in the fact that it promotes a widely contemplative habit of mind on this ground utility is to be found in much of the knowledge that is nowadays labelled useless Bertrand Russell In Praise of Idleness London 1935 Why are scientists in so many cases so deeply interested in their work Is it merely because it is useful It is only necessary to talk to such scientists to discover that the utilitarian possibilities of their work are generally of secondary interest to them Something else is primary David Bohm On creativity Abingdon 1996 In this volume the dynamical critical behaviour of many body systems far from equilibrium is discussed Therefore the intrinsic properties of the dynamics itself rather than those of the stationary state are in the focus of interest Characteristically far from equilibrium systems often display dynamical scaling even if the stationary state is very far from being critical A 1 As an example of a non equilibrium phase transition with striking practical consequences consider the allotropic change of metallic tin to brittle tin At equilibrium the gray Sn becomes more stable than the silvery Sn at 13.2 °C Kinetically the transition between these two solid forms of tin is rather slow at higher temperatures It starts from small islands of Sn the growth of which proceeds through an autocatalytic reaction Computational Statistical Physics Lucas Böttcher, Hans J. Herrmann, 2021-08-26 Providing a detailed and pedagogical account of the rapidly growing field of computational statistical physics this book covers both the theoretical foundations of equilibrium and non equilibrium statistical physics and also modern computational applications such as percolation random walks magnetic systems machine learning dynamics and spreading processes on complex networks A detailed discussion of molecular dynamics simulations is also included a topic of great importance in biophysics and physical chemistry The accessible and self contained approach adopted by the authors makes this book suitable for teaching courses at graduate level and numerous worked examples and end of chapter problems allow students to test their progress and understanding Chaos Theory: Modeling, Simulation And Applications - Selected Papers From The 3rd Chaotic Modeling And Simulation International Conference (Chaos2010) Christos H Skiadas, Ioannis Dimotikalis, Charilaos Skiadas, 2011-05-31 The work done in chaotic modeling and simulation during the last decades has changed our views of the world around us and has introduced new scientific tools methods and techniques Advanced topics of these achievements are included in this volume on Chaos Theory which focuses on Chaotic Modeling Simulation and Applications of the nonlinear phenomena This volume includes the best papers presented in the 3rd International Conference on CHAOS This interdisciplinary conference attracted people from many scientific fields dealing with chaos nonlinear dynamics fractals and the works presented and the papers included here are of particular interest that could provide a broad understanding of chaos in its various forms The chapters relate to many fields of chaos including Dynamical and Nonlinear Systems Attractors and Fractals Hydro Fluid Dynamics and Mechanics Chaos in Meteorology and Cosmology Chaos in Biology and Genetics Chaotic Control Chaos in Economy and Markets and Computer Composition and Chaotic Simulations including related applications Fractional Derivatives for Physicists and Engineers Vladimir V.

Uchaikin,2025-07-21 This book brings new perspectives in front of the reader dealing with turbulence and semiconductors plasma and thermodynamics mechanics and quantum optics nanophysics and astrophysics The first derivative of a particle coordinate means its velocity the second means its acceleration but what does a fractional order derivative mean Where does it come from how does it work where does it lead to The two volume book written on high didactic level answers these questions The first volume ISBN 978 3 642 33910 3 contains a clear introduction into such a modern branch of analysis as fractional calculus This second volume develops a wide panorama of applications of the fractional calculus to various physical problems This book is addressed to students engineers and physicists specialists in theory of probability and statistics in mathematical modeling and numerical simulations to everybody who doesn't wish to stay apart from the new mathematical methods becoming more and more popular

Adams Pech, die Welt zu retten Arto Paasilinna,2009 Aatami Rym ttyl hat den Weg aus der drohenden lkrise gefunden einen winzigen Akku der Strom im berfluss liefern kann Um die umw lzende Erfindung zu vermarkten fehlt Aatami jedoch das Geld Zum Gl ck nimmt sich Eeva Kontupohja des vom Pech verfolgten Weltretters an Die neue Energiequelle st sst jedoch nicht nur auf Gegenliebe Die lmultis setzen einen sizilianischen Killer auf Aatami an

Non-perturbative Renormalization Group Approach to Some Out-of-Equilibrium Systems Malo Tarpin,2020-03-19 This thesis presents the application of non perturbative or functional renormalization group to study the physics of critical stationary states in systems out of equilibrium Two different systems are thereby studied The first system is the diffusive epidemic process a stochastic process which models the propagation of an epidemic within a population This model exhibits a phase transition peculiar to out of equilibrium between a stationary state where the epidemic is extinct and one where it survives The present study helps to clarify subtle issues about the underlying symmetries of this process and the possible universality classes of its phase transition The second system is fully developed homogeneous isotropic and incompressible turbulence The stationary state of this driven dissipative system shows an energy cascade whose phenomenology is complex with partial scale invariance intertwined with what is called intermittency In this work analytical expressions for the space time dependence of multi point correlation functions of the turbulent state in 2 and 3 D are derived This result is noteworthy in that it does not rely on phenomenological input except from the Navier Stokes equation and that it becomes exact in the physically relevant limit of large wave numbers The obtained correlation functions show how scale invariance is broken in a subtle way related to intermittency corrections

Statistical Physics of Complex Systems Eric Bertin,2016-10-14 This course tested primer provides graduate students and non specialists with a basic understanding of the concepts and methods of statistical physics and demonstrates their wide range of applications to interdisciplinary topics in the field of complex system sciences including selected aspects of theoretical modeling in biology and the social sciences Generally speaking the goals of statistical physics may be summarized as follows on the one hand to study systems composed of a large number of interacting units and on the other to predict the macroscopic collective behavior of the system

considered from the perspective of the microscopic laws governing the dynamics of the individual entities These two goals are essentially also shared by what is now called complex systems science and as such systems studied in the framework of statistical physics may be considered to be among the simplest examples of complex systems while also offering a rather well developed mathematical treatment The second edition has been significantly revised and expanded featuring in particular three new chapters addressing non conserved particles evolutionary population dynamics networks properties of both individual and coupled simple dynamical systems and convergence theorems as well as short appendices that offer helpful hints on how to perform simple stochastic simulations in practice Yet the original spirit of the book to remain accessible to a broad non specialized readership has been kept throughout the format is a set of concise modular and self contained topical chapters avoiding technicalities and jargon as much as possible and complemented by a wealth of worked out examples so as to make this work useful as a self study text or as textbook for short courses From the reviews of the first edition a good introduction to basic concepts of statistical physics and complex systems for students and researchers with an interest in complex systems in other fields Georg Hebermehl Zentralblatt MATH Vol 1237 2012 this short text remains very refreshing for the mathematician Dimitri Petritis Mathematical Reviews Issue 2012k

Complex and Adaptive Dynamical Systems

Claudius Gros, 2015-04-01 This primer offers readers an introduction to the central concepts that form our modern understanding of complex and emergent behavior together with detailed coverage of accompanying mathematical methods All calculations are presented step by step and are easy to follow This new fourth edition has been fully reorganized and includes new chapters figures and exercises The core aspects of modern complex system sciences are presented in the first chapters covering network theory dynamical systems bifurcation and catastrophe theory chaos and adaptive processes together with the principle of self organization in reaction diffusion systems and social animals Modern information theoretical principles are treated in further chapters together with the concept of self organized criticality gene regulation networks hypercycles and coevolutionary avalanches synchronization phenomena absorbing phase transitions and the cognitive system approach to the brain Technical course prerequisites are the standard mathematical tools for an advanced undergraduate course in the natural sciences or engineering Each chapter includes exercises and suggestions for further reading and the solutions to all exercises are provided in the last chapter From the reviews of previous editions This is a very interesting introductory book written for a broad audience of graduate students in natural sciences and engineering It can be equally well used both for teaching and self education Very well structured and every topic is illustrated with simple and motivating examples This is a true guidebook to the world of complex nonlinear phenomena Ilya Pavlyukevich Zentralblatt MATH Vol 1146 2008 Claudius Gros *Complex and Adaptive Dynamical Systems A Primer* is a welcome addition to the literature A particular strength of the book is its emphasis on analytical techniques for studying complex systems David P Feldman *Physics Today* July 2009

Non-equilibrium Phase Transitions ,2008 Future Of Fractals - Proceedings Of The

International Conference Sasuke Miyazima, 1997-07-01 The topics covered in this volume include formation of fractal structures kinetics of aggregation and gelation depositions cluster growth chemical reactions fractures self organized criticality etc physical properties of fractals transport vibrations magnetism etc and especially applications of fractal concepts in materials science geosciences biological sciences and order fields

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