

Theoretical and Mathematical Physics

David A. Lavis

Equilibrium Statistical Mechanics of Lattice Models



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Equilibrium Statistical Mechanics Of Lattice Models Theoretical And Mathematical Physics

Sacha Friedli, Yvan Velenik



Equilibrium Statistical Mechanics Of Lattice Models Theoretical And Mathematical Physics:

Equilibrium Statistical Mechanics of Lattice Models David A. Lavis, 2015-01-31 Most interesting and difficult problems in equilibrium statistical mechanics concern models which exhibit phase transitions For graduate students and more experienced researchers this book provides an invaluable reference source of approximate and exact solutions for a comprehensive range of such models Part I contains background material on classical thermodynamics and statistical mechanics together with a classification and survey of lattice models The geometry of phase transitions is described and scaling theory is used to introduce critical exponents and scaling laws An introduction is given to finite size scaling conformal invariance and Schramm Loewner evolution Part II contains accounts of classical mean field methods The parallels between Landau expansions and catastrophe theory are discussed and Ginzburg Landau theory is introduced The extension of mean field theory to higher orders is explored using the Kikuchi Hijmans De Boer hierarchy of approximations In Part III the use of algebraic transformation and decoration methods to obtain exact system information is considered This is followed by an account of the use of transfer matrices for the location of incipient phase transitions in one dimensionally infinite models and for exact solutions for two dimensionally infinite systems The latter is applied to a general analysis of eight vertex models yielding as special cases the two dimensional Ising model and the six vertex model The treatment of exact results ends with a discussion of dimer models In Part IV series methods and real space renormalization group transformations are discussed The use of the De Neef Enting finite lattice method is described in detail and applied to the derivation of series for a number of model systems in particular for the Potts model The use of Pad e differential and algebraic approximants to locate and analyze second and first order transitions is described The realization of the ideas of scaling theory by the renormalization group is presented together with treatments of various approximation schemes including phenomenological renormalization Part V of the book contains a collection of mathematical appendices intended to minimise the need to refer to other mathematical sources

Statistical Mechanics of Lattice Systems Sacha Friedli, Yvan Velenik, 2017-11-23 A self contained mathematical introduction to the driving ideas in equilibrium statistical mechanics studying important models in detail

Statistical Mechanics of Lattice Systems David Lavis, George M. Bell, 2013-04-17 Most of the interesting and difficult problems in statistical mechanics arise when the constituent particles of the system interact with each other with pair or multi particle energies The types of behaviour which occur in systems because of these interactions are referred to as cooperative phenomena giving rise in many cases to phase transitions This book and its companion volume Lavis and Bell 1999 referred to in the text simply as Volume 2 are principally concerned with phase transitions in lattice systems Due mainly to the insights gained from scaling theory and renormalization group methods this 1 subject has developed very rapidly over the last thirty years In our choice of topics we have tried to present a good range of fundamental theory and of applications some of which reflect our own interests A broad division of material can be made between exact results and ap

proximation methods We have found it appropriate to include some of our discussion of exact results in this volume and some in Volume 2 The other main area of discussion in this volume is mean field theory leading to closed form approximations Although this is known not to give reliable results close to a critical region it often provides a good qualitative picture for phase diagrams as a whole For complicated systems some kind of mean field method is often the only tractable method available

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Bell,2014-01-15 *Gibbs Measures In Biology And Physics: The Potts Model* Utkir A Rozikov,2022-07-28 This book presents recently obtained mathematical results on Gibbs measures of the q state Potts model on the integer lattice and on Cayley trees It also illustrates many applications of the Potts model to real world situations in biology physics financial engineering medicine and sociology as well as in some examples of alloy behavior cell sorting flocking birds flowing foams and image segmentation Gibbs measure is one of the important measures in various problems of probability theory and statistical mechanics It is a measure associated with the Hamiltonian of a biological or physical system Each Gibbs measure gives a state of the system The main problem for a given Hamiltonian on a countable lattice is to describe all of its possible Gibbs measures The existence of some values of parameters at which the uniqueness of Gibbs measure switches to non uniqueness is interpreted as a phase transition This book informs the reader about what has been mathematically done in the theory of Gibbs measures of the Potts model and the numerous applications of the Potts model The main aim is to facilitate the readers in mathematical biology statistical physics applied mathematics probability and measure theory to progress into an in depth understanding by giving a systematic review of the theory of Gibbs measures of the Potts model and its applications

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The volume will be of interest to graduate students and researchers in analysis and partial differential equations continuum mechanics condensed matter physics discrete geometry and mathematical physics Titles in this series are co published with the Institute for Advanced Study Park City Mathematics Institute Members of the Mathematical Association of America MAA and the National Council of Teachers of Mathematics NCTM receive a 20% discount from list price NOTE This discount does not apply to volumes in this series co published with the Society for Industrial and Applied Mathematics SIAM

Nonequilibrium and Irreversibility Giovanni Gallavotti, 2025-05-31 This 2nd edition of the book focuses on the properties of stationary states in chaotic systems of particles or fluids setting aside the theory of how these states are achieved The second edition has been thoroughly revised and includes numerous corrections It incorporates recent findings with particular emphasis on the equivalence between irreversible and reversible equations The ongoing debate over reversibility and irreversible behavior is frequently discussed The book seeks to unify the study of stationary nonequilibrium states with that of equilibrium states using the paradigm offered by the simplest chaotic systems specifically Anosov systems The book begins by exploring the time invariant distributions relevant to physics A distinctive feature of this work is its historical approach To clarify foundational issues the author analyzes the works of pioneering figures like Boltzmann Clausius and Maxwell including translated excerpts of key historical documents Additionally the author establishes a close connection between the treatment of irreversible phenomena in statistical mechanics and the theory of chaotic systems particularly at and beyond the onset of turbulence as developed by Sinai Ruelle and Bowen SRB and others Arguments are presented to strongly support the perspective that stationary states whether in equilibrium or not can be described in a unified framework The book offers extensive coverage of contemporary research presented in sufficient detail to give advanced students a sense of the ongoing research directions in this dynamic field Proofs of theorems are generally limited to heuristic outlines favoring the presentation of concepts and providing references for further study thereby avoiding an overload of technical detail in the main text

Mathematical Physics II: Classical Statistical Mechanics Matteo Petrera, 2014 These Lecture Notes provide an introduction to classical statistical mechanics The first part presents classical results mainly due to L Boltzmann and J W Gibbs about equilibrium statistical mechanics of continuous systems Among the topics covered are kinetic theory of gases ergodic problem Gibbsian formalism derivation of thermodynamics phase transitions and thermodynamic limit The second part is devoted to an introduction to the study of classical spin systems with special emphasis on the Ising model The material is presented in a way that is at once intuitive systematic and mathematically rigorous The theoretical part is supplemented with concrete examples and exercises

Probability on Discrete Structures Harry Kesten, 2013-03-14 Most probability problems involve random variables indexed by space and or time These problems almost always have a version in which space and or time are taken to be discrete This volume deals with areas in which the discrete version is more natural than the continuous one perhaps even the only one than can be

formulated without complicated constructions and machinery The 5 papers of this volume discuss problems in which there has been significant progress in the last few years they are motivated by or have been developed in parallel with statistical physics They include questions about asymptotic shape for stochastic growth models and for random clusters existence location and properties of phase transitions speed of convergence to equilibrium in Markov chains and in particular for Markov chains based on models with a phase transition cut off phenomena for random walks The articles can be read independently of each other Their unifying theme is that of models built on discrete spaces or graphs Such models are often easy to formulate Correspondingly the book requires comparatively little previous knowledge of the machinery of probability

Operator Algebras and Quantum Statistical Mechanics Ola Bratteli, Derek William Robinson, 2013-06-29 For almost two decades this has been the classical textbook on applications of operator algebra theory to quantum statistical physics It describes the general structure of equilibrium states the KMS condition and stability quantum spin systems and continuous systems Major changes in the new edition relate to Bose Einstein condensation the dynamics of the X Y model and questions on phase transitions Notes and remarks have been considerably augmented

Encyclopedia of Mathematical Physics Jean-Pierre Francoise, Gregory L. Naber, Sheung Tsun Tsou, 2006 The Encyclopedia of Mathematical Physics provides a complete resource for researchers students and lecturers with an interest in mathematical physics It enables readers to access basic information on topics peripheral to their own areas to provide a repository of the core information in the area that can be used to refresh the researcher's own memory banks and aid teachers in directing students to entries relevant to their course work The Encyclopedia does contain information that has been distilled organised and presented as a complete reference tool to the user and a landmark to the body of knowledge that has accumulated in this domain It also is a stimulus for new researchers working in mathematical physics or in areas using the methods originating from work in mathematical physics by providing them with focused high quality background information Editorial Board Jean Pierre Fran oise Universit Pierre et Marie Curie Paris France Gregory L Naber Drexel University Philadelphia PA USA Tsou Sheung Tsun University of Oxford UK Also available online via ScienceDirect 2006 featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy

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Mathematical Reviews, 2007

Methods of Contemporary Mathematical Statistical Physics Marek Biskup, Anton Bovier, Frank den Hollander, Dima Ioffe, Fabio Martinelli, Karel Netocný, Christina Toninelli, 2009-07-31 This volume presents a collection of courses introducing the reader to the recent progress with attention being paid to laying solid grounds and developing various basic tools It presents new results on phase transitions for gradient lattice models

Applied Mechanics

Reviews ,1976 **Statistical Mechanics** Teunis C Dorlas,2021-04-14 Statistical Mechanics Fundamentals and Model Solutions Second Edition Fully updated throughout and with new chapters on the Mayer expansion for classical gases and on cluster expansion for lattice models this new edition of Statistical Mechanics Fundamentals and Model Solutions provides a comprehensive introduction to equilibrium statistical mechanics for advanced undergraduate and graduate students of mathematics and physics The author presents a fresh approach to the subject setting out the basic assumptions clearly and emphasizing the importance of the thermodynamic limit and the role of convexity With problems and solutions the book clearly explains the role of models for physical systems and discusses and solves various models An understanding of these models is of increasing importance as they have proved to have applications in many areas of mathematics and physics Features Updated throughout with new content from the field An established and well loved textbook Contains new problems and solutions for further learning opportunity Author Professor Teunis C Dorlas is at the Dublin Institute for Advanced Studies Ireland

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