

Topics in Applied Physics

Volume 71

The Monte Carlo Method in Condensed Matter Physics

Second, Corrected and Updated Edition

Editor: K. Binder

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Monte Carlo Method In Condensed Matter Physics

Kurt Binder



Monte Carlo Method In Condensed Matter Physics:

Quantum Monte Carlo Methods In Condensed Matter Physics Masuo Suzuki, 1993-12-30 This book reviews recent developments of quantum Monte Carlo methods and some remarkable applications to interacting quantum spin systems and strongly correlated electron systems. It contains twenty-two papers by thirty authors. Some of the features are as follows: The first paper gives the foundations of the standard quantum Monte Carlo method including some recent results on higher order decompositions of exponential operators and ordered exponentials. The second paper presents a general review of quantum Monte Carlo methods used in the present book. One of the most challenging problems in the field of quantum Monte Carlo techniques, the negative sign problem, is also discussed and new methods proposed to partially overcome it. In addition, low dimensional quantum spin systems are studied. Some interesting applications of quantum Monte Carlo methods to fermion systems are also presented to investigate the role of strong correlations and fluctuations of electrons and to clarify the mechanism of high T_c superconductivity. Not only thermal properties but also quantum mechanical ground state properties have been studied by the projection technique using auxiliary fields. Further, the Haldane gap is confirmed by numerical calculations. Active researchers in the forefront of condensed matter physics as well as young graduate students who want to start learning the quantum Monte Carlo methods will find this book useful.

The Monte Carlo Method in Condensed Matter Physics Kurt Binder, 2012-12-06 The Monte Carlo method is now widely used and commonly accepted as an important and useful tool in solid state physics and related fields. It is broadly recognized that the technique of computer simulation is complementary to both analytical theory and experiment and can significantly contribute to advancing the understanding of various scientific problems. Widespread applications of the Monte Carlo method to various fields of the statistical mechanics of condensed matter physics have already been reviewed in two previously published books, namely *Monte Carlo Methods in Statistical Physics Topics Current Physics Vol 7* 1st edn 1979 2nd edn 1986 and *Applications of the Monte Carlo Method in Statistical Physics Topics Current Physics Vol 36* 1st edn 1984 2nd edn 1987. Meanwhile, the field has continued its rapid growth and expansion and applications to new fields have appeared that were not treated at all in the above two books, e.g. studies of irreversible growth phenomena, cellular automata, interfaces and quantum problems on lattices. Also, new methodic aspects have emerged such as aspects of efficient use of vector computers or parallel computers, more efficient analysis of simulated systems, configurations and methods to reduce critical slowing down at phase transitions. Taken together with the extensive activity in certain traditional areas of research, simulation of classical and quantum fluids, of macromolecular materials, of spin glasses and quadrupolar glasses etc.

A Guide to Monte Carlo Simulations in Statistical Physics David P. Landau, Kurt Binder, 2000-08-17 This book describes all aspects of Monte Carlo simulation of complex physical systems encountered in condensed matter physics and statistical mechanics as well as in related fields such as polymer science and lattice gauge theory. The authors give a succinct overview of simple sampling methods and develop the importance sampling

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Physics David Landau,Kurt Binder,2021-07-29 Dealing with all aspects of Monte Carlo simulation of complex physical systems encountered in condensed matter physics and statistical mechanics this book provides an introduction to computer simulations in physics The 5th edition contains extensive new material describing numerous powerful algorithms and methods that represent recent developments in the field New topics such as active matter and machine learning are also introduced Throughout there are many applications examples recipes case studies and exercises to help the reader fully comprehend the material This book is ideal for graduate students and researchers both in academia and industry who want to learn techniques that have become a third tool of physical science complementing experiment and analytical theory

Quantum Monte Carlo Approaches for Correlated Systems Federico Becca, Sandro Sorella, 2017-11-30 Over the past several decades computational approaches to studying strongly interacting systems have become increasingly varied and sophisticated This book provides a comprehensive introduction to state of the art quantum Monte Carlo techniques relevant for applications in correlated systems Providing a clear overview of variational wave functions and featuring a detailed presentation of stochastic samplings including Markov chains and Langevin dynamics which are developed into a discussion of Monte Carlo methods The variational technique is described from foundations to a detailed description of its algorithms Further topics discussed include optimisation techniques real time dynamics and projection methods including Green's function reptation and auxiliary field Monte Carlo from basic definitions to advanced algorithms for efficient codes and the book concludes with recent developments on the continuum space Quantum Monte Carlo Approaches for Correlated Systems provides an extensive reference for students and researchers working in condensed matter theory or those interested in advanced numerical methods for electronic simulation

The Monte Carlo Method and Thermal Ratchets in Condensed Matter Physics Choongseop Lee, 2000 Monte Carlo and Molecular Dynamics of Condensed Matter Systems Kurt Binder, Giovanni Ciccotti, 1996

Quantum Monte Carlo Methods James Gubernatis, Naoki Kawashima, Philipp Werner, 2016-06-02 The first textbook to provide a pedagogical examination of the major algorithms used in quantum Monte Carlo simulations

A Guide to Monte Carlo Simulations in Statistical Physics David P. Landau, Kurt Binder, 2020 Dealing with all aspects of Monte Carlo simulation of complex physical systems encountered in condensed matter physics and statistical mechanics this book provides an introduction to computer simulations in physics This fourth edition contains extensive new material describing numerous powerful algorithms not covered in previous editions in some cases representing new developments that have only recently appeared Older methodologies whose impact was previously unclear or unappreciated are also introduced in addition to many small revisions that bring the text and cited literature up to date This edition also introduces the use of petascale computing facilities in the Monte Carlo arena

Computer Simulation Studies in Condensed-Matter Physics XI David P. Landau, Heinz-Bernd Schüttler, 2012-12-06 More than a decade ago because of the phenomenal growth in the power of computer simulations The University of Georgia formed the first institutional unit devoted to the use of simulations in research and teaching The Center for Simulational Physics As the simulations community expanded further we sensed a need for a meeting place for both experienced simulators and neophytes to discuss new techniques and recent results in an environment which promoted extended discussion As a consequence the Center for Simulational Physics established an annual workshop on Recent Developments in Computer Simulation Studies in Condensed Matter Physics This year's workshop was the eleventh in this series and the interest shown by the scientific community demonstrates quite clearly the useful purpose which the series has served The latest workshop was held at The University of Georgia February 23-27 1998 and these proceedings provide a status report on a number of important topics This volume is

published with the goal of timely dissemination of the material to a wider audience We wish to offer a special thanks to IBM Corporation for their generous support of this year's workshop This volume contains both invited papers and contributed presentations on problems in both classical and quantum condensed matter physics We hope that each reader will benefit from specialized results as well as profit from exposure to new algorithms methods of analysis and conceptual developments Athens GA U S A D P Landau April 1998 H B

Monte Carlo Simulation in Statistical Physics Kurt Binder, Dieter W. Heermann, 2010-09-13

An Introduction to Quantum Monte Carlo Methods Tao Pang, 2016-12-07 Monte Carlo methods have been very prominent in computer simulation of various systems in physics chemistry biology and materials science This book focuses on the discussion and path integral quantum Monte Carlo methods in many body physics and provides a concise but complete introduction to the Metropolis algorithm and its applications in these two techniques To explore the schemes in clarity several quantum many body systems are analysed and studied in detail The book includes exercises to help digest the materials covered It can be used as a tutorial to learn the discussion and path integral Monte Carlo or a recipe for developing new research in the reader's own area Two complete Java programs one for the discussion Monte Carlo of 4 He clusters on a graphite surface and the other for the path integral Monte Carlo of cold atoms in a potential trap are ready for download and adoption

Applications of the Monte Carlo Method in Statistical Physics Kurt Binder, 2013-06-29 Deals with the computer simulation of complex physical systems encountered in condensed matter physics and statistical mechanics as well as in related fields such as metallurgy polymer research lattice gauge theory and quantum mechanics

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Quantum Monte-Carlo Programming Wolfgang Schattke, Ricardo Díez Muiño, 2013-09-03 Quantum Monte Carlo is a large class of computer algorithms that simulate quantum systems to solve many body systems in order to investigate the electronic structure of many body systems This book presents a numeric approach to determine the electronic structure of atoms molecules and solids Because of the simplicity of its theoretical concept the authors focus on the variational Quantum Monte Carlo VQMC scheme The reader is enabled to proceed from simple examples as the hydrogen atom to advanced ones as the Lithium solid Several intermediate steps cover the Hydrogen molecule how to deal with a two electron system going over to three electrons and expanding to an arbitrary number of electrons to finally treat the three dimensional periodic array of Lithium atoms in a crystal The examples in the field of VQMC are followed by the subject of diffusion Monte Carlo DMC which covers a common example the harmonic oscillator The book is unique as it provides both theory and numerical programs It includes rather practical advice to do what is usually described in a theoretical textbook and presents in more detail the physical understanding of what the manual of a code usually promises as result Detailed derivations can be found at the appendix and the references are chosen with respect to their use for specifying details or getting a deeper understanding The authors address an introductory readership in condensed matter physics computational physics chemistry and materials science As the text is intended to

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Monte Carlo Simulations of Disordered Systems S. Jain, 1992-04-01 This book covers the techniques of computer simulations of disordered systems It describes how one performs Monte Carlo simulations in condensed matter physics and deals with spin glasses percolating networks and the random field Ising model Other methods mentioned are molecular dynamics and Brownian dynamics Use of flow diagrams enables the reader to grasp both the problem and its solution more readily The book deals with highly complicated problems at a relatively simple level and will be most useful for advanced undergraduate and other courses in computational modelling

Computer Simulation Studies in Condensed-Matter Physics V David P. Landau, K.K. Mon, Heinz-Bernd Schüttler, 2012-12-06 As the role of computer simulations began to increase in importance we sensed a need for a meeting place for both experienced simulators and neophytes to discuss new techniques and results in an environment which promotes extended discussion As a consequence of these concerns The Center for Simulation Physics established an annual workshop on Recent Developments in Computer Simulation Studies in Condensed Matter Physics This year's workshop was the fifth in this series and the interest which the scientific community has shown demonstrates quite clearly the useful purpose which the series has served The workshop was held at the University of Georgia February 17-21 1992 and these proceedings form a record of the workshop which is published with the goal of timely dissemination of the papers to a wider audience The proceedings are divided into four parts The first part contains invited papers which deal with simulation studies of classical systems and includes an introduction to some new simulation techniques and special purpose computers as well A separate section of the proceedings is devoted to invited papers on quantum systems including new results for strongly correlated electron and quantum spin models The third section is comprised of a single invited description of a newly developed software shell designed for running parallel programs The contributed presentations comprise the final chapter

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