METHODS OF QUANTUM FIELD THEORY IN STATISTICAL PHYSICS

A. A. Abrikosov, L.P. Gorkov, & I. E. Dzyaloshinski

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Methods Of Statistical Physics

Alekseĭ Alekseevich Abrikosov,Lev Petrovich Gorʹkov,Igor E. Dzjalošinskij

Methods Of Statistical Physics:

    Methods of Statistical Physics A. I. Akhiezer,S. V. Peletminskii,2013-10-22 Methods of Statistical Physics is an exposition of the tools of statistical mechanics which evaluates the kinetic equations of classical and quantized systems The book also analyzes the equations of macroscopic physics such as the equations of hydrodynamics for normal and superfluid liquids and macroscopic electrodynamics The text gives particular attention to the study of quantum systems This study begins with a discussion of problems of quantum statistics with a detailed description of the basics of quantum mechanics along with the theory of measurement An analysis of the asymptotic behavior of universal quantities is also explained Strong consideration is given to the systems with spontaneously broken system Theories such as the kinetic theory of gases the theory of Brownian motion the theory of the slowing down of neutrons and the theory of transport phenomena in crystals are discussed The book will be a useful tool for physicists mathematicians students and researchers in the field of statistical mechanics   **Methods of Quantum Field Theory in Statistical Physics** A. A. Abrikosov,L. P. Gorkov,I. E. Dzyaloshinski,2012-05-04 This comprehensive introduction to the many body theory was written by three renowned physicists and acclaimed by American Scientist as a classic text on field theoretic methods in statistical physics   *Methods of Statistical Physics* Aleksandr Il'ic Akhiezer,S. V. Peletminskii,1981   Monte Carlo Methods in Statistical Physics Kurt Binder,2012-12-06 In the seven years since this volume first appeared there has been an enormous expansion of the range of problems to which Monte Carlo computer simulation methods have been applied This fact has already led to the addition of a companion volume Applications of the Monte Carlo Method in Statistical Physics Topics in Current Physics Vol 36 edited in 1984 to this book But the field continues to develop further rapid progress is being made with respect to the implementation of Monte Carlo algorithms the construction of special purpose computers dedicated to exe cute Monte Carlo programs and new methods to analyze the data generated by these programs Brief descriptions of these and other developments together with numerous addi tional references are included in a new chapter Recent Trends in Monte Carlo Simulations which has been written for this second edition Typographical correc tions have been made and fuller references given where appropriate but otherwise the layout and contents of the other chapters are left unchanged Thus this book together with its companion volume mentioned above gives a fairly complete and up to date review of the field It is hoped that the reduced price of this paperback edition will make it accessible to a wide range of scientists and students in the fields to which it is relevant theoretical phYSics and physical chemistry con densed matter physics and materials science computational physics and applied mathematics etc   Methods of Statistical Physics Tomoyasu Tanaka,2002-03-14 A graduate level textbook on thermal physics covering classical thermodynamics statistical mechanics and its applications   Monte Carlo Methods in Statistical Physics ,1999-02-11 This book provides an introduction to Monte Carlo simulations in classical statistical physics and is aimed both at students beginning work in the field and at more experienced researchers who wish to learn more about

Monte Carlo methods The material covered includes methods for both equilibrium and out of equilibrium systems and common algorithms like the Metropolis and heat bath algorithms are discussed in detail as well as more sophisticated ones such as continuous time Monte Carlo cluster algorithms multigrid methods entropic sampling and simulated tempering Data analysis techniques are also explained starting with straightforward measurement and error estimation techniques and progressing to topics such as the single and multiple histogram methods and finite size scaling The last few chapters of the book are devoted to implementation issues including discussions of such topics as lattice representations efficient implementation of data structures multispin coding parallelization of Monte Carlo algorithms and random number generation At the end of the book the authors give a number of example programs demonstrating the applications of these techniques to a variety of well known models   Statistical Physics Josef Honerkamp,2012-06-19 The application of statistical methods to physics is essential This unique book on statistical physics offers an advanced approach with numerous applications to the modern problems students are confronted with Therefore the text contains more concepts and methods in statistics than the student would need for statistical mechanics alone Methods from mathematical statistics and stochastics for the analysis of data are discussed as well The book is divided into two parts focusing first on the modeling of statistical systems and then on the analysis of these systems Problems with hints for solution help the students to deepen their knowledge The third edition has been updated and enlarged with new sections deepening the knowledge about data analysis Moreover a customized set of problems with solutions is accessible on the Web at extras springer com   Statistical Physics J. Honerkamp,2002-06-10 The application of statistical methods to physics is essential This unique book on statistical physics offers an advanced approach with numerous applications to the modern problems students are confronted with Therefore the text contains more concepts and methods in statistics than the student would need for statistical mechanics alone Methods from mathematical statistics and stochastics for the analysis of data are discussed as well The book is divided into two parts focusing first on the modeling of statistical systems and then on the analysis of these systems Problems with hints for solution help the students to deepen their knowledge The second edition has been updated and enlarged with new material on estimators based on a probability distribution for the parameters identification of stochastic models from observations and statistical tests and classification methods Chaps 10 12 Moreover a customized set of problems with solutions is accessible on the Web The author teaches and conducts research on stochastic dynamical systems at the University of Freiburg Germany

Applications of the Monte Carlo Method in Statistical Physics K. Binder,2012-12-06 Monte Carlo computer simulations are now a standard tool in scientific fields such as condensed matter physics including surface physics and applied physics problems metallurgy diffusion and segregation etc chemical physics including studies of solutions chemical reactions polymer statistics etc and field theory With the increasing ability of this method to deal with quantum mechanical problems such as quantum spin systems or many fermion problems it will become useful for other questions in the fields of elementary particle

and nuclear physics as well The large number of recent publications dealing either with applications or further development of some aspects of this method is a clear indication that the scientific community has realized the power and versatility of Monte Carlo simula tions as well as of related simulation techniques such as molecular dynamics and Langevin dynamics which are only briefly mentioned in the present book With the increasing availability of recent very high speed general purpose computers many problems become tractable which have so far escaped satisfactory treatment due to prac tical limitations too small systems had to be chosen or too short averaging times had to be used While this approach is admittedly rather expensive two cheaper alternatives have become available too i array or vector processors specifical ly suited for wide classes of simulation purposes ii special purpose processors which are built for a more specific class of problems or in the extreme case for the simulation of one single model system   *From Microphysics to Macrophysics* Roger Balian,2007-06-26 Although it has changed considerably in both coverage and length this book originated from lecture courses at the Ecole Polytechnique It is useful to re mind non Prench readers of the special place this institution occupies in our education system as it has few features in common with institutes with a similar name in other parts of the world In fact its programme corresponds to the intermediate years at a university while the level of the students is particularly high owing to their strict selection through entrance examina tions The courses put a stress on giving foundations with a balance between the various natural and mathematical sciences without neglecting general cultural aspects specialization and technological instruction follow after the students have left the Ecole The students form a very mixed population not yet having made their choice of career Many of them become high level engineers covering all branches of industry some devote themselves to pure or applied research others become managers or civil servants and one can find former students of the Ecole amongst generals the clergy teachers and even artists and Presidents of Prance Several features of the present volume and in particular its contents correspond to this variety and to the needs of such an audience Statistical physics in the broadest meaning of the term with its many related disci plines is an essential element of modern scientific culture   **From Microphysics to Macrophysics** Roger Balian,2006-11-13 This popular often cited text returns in a softcover edition to provide a thorough introduction to statistical physics and thermodynamics and to exhibit the universality of the chain of ideas leading from the laws of microphysics to the macroscopic behaviour of matter A wide range of applications illustrates the concepts and many exercises reinforce understanding Volume I discusses the probabilistic description of quantum or classical systems the Boltzmann Gibbs distributions the conservation laws and the interpretation of entropy as missing information Thermodynamics and electromagnetism in matter are dealt with as well as applications to dilute and condensed gases and to phase transitions   **Monte Carlo Methods in Statistical Physics** K. Murthy,2004 Monte Carlo simulations comprise a substantial part of the new and third major arm of investigation in the physical sciences that has emerged in recent times to augment the traditional ones of experiment and theory With the advent of high speed digital computing numerical

simulations techniques like Monte Carlo have been very successful in extracting real world observations out of seemingly intractable theoretical models **Monte Carlo Methods in Statistical Physics** K. Binder,1979 The Monte Carlo method is a method of computer simulation of a system with many degrees of freedom and thus has widespread applications in science It has its name from the use of random numbers to simulate statistical fluctuations in order to numerically generate probability distributions which otherwise may not be known explicitly since the considered systems are so complex While the method would work in principle also with random numbers generated at a roulette table an ef fective and economic use of this method requires the use of high speed digital computers Thus the first successful application of this method to a problem of statistical thermodynamics dates back only to 1953 when Metropolis and co workers studied a fluid consisting of hard disks Since then this technique has experi enced an impetuous development which is likely to even speed up in the future since better computers now available allow many fascinating applications What are then the specific advantages of Monte Carlo computer experiments To answer that question one first notes that Monte Carlo methods yield information on model systems where specific assumption about the effective forces between the atoms have been made which in principle is numerically exact i e the results are accurate apart from statistical erros which can be made as small as desired if only enough computing time is invested *Statistical Physics* Josef Honerkamp,2014-09-01 **Quantum Field Theoretical Methods in Statistical Physics** Alekseĭ Alekseevich Abrikosov,Lev Petrovich Gor'kov,Igor E. Dzjalošinskij,1965-12

Methods of Contemporary Mathematical Statistical Physics Marek Biskup,2009-03-25 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 An introductory chapter on lattice spin models is useful as a background for other lectures of the collection The topics include new results on phase transitions for gradient lattice models with introduction to the techniques of the reflection positivity stochastic geometry reformulation of classical and quantum Ising models the localization delocalization transition for directed polymers A general rigorous framework for theory of metastability is presented and particular applications in the context of Glauber and Kawasaki dynamics of lattice models are discussed A pedagogical account of several recently discussed topics in nonequilibrium statistical mechanics with an emphasis on general principles is followed by a discussion of kinetically constrained spin models that are reflecting important peculiar features of glassy dynamics **Statistical Physics I** Morikazu Toda,Ryogo Kubo,Nobuhiko Saito,2012-12-06 Statistical Physics I discusses the fundamentals of equilibrium statistical mechanics focussing on basic physical aspects No previous knowledge of thermodynamics or the molecular theory of gases is assumed Illustrative examples based on simple materials and photon systems elucidate the central ideas and methods **Statistics** R. J. Barlow,1993-12-08 The Manchester Physics Series General Editors D J Sandiford F Mandl A C Phillips Department of Physics and Astronomy University of Manchester Properties of Matter B H Flowers and E Mendoza Optics Second Edition F G Smith and J H Thomson Statistical Physics

Second Edition F Mandl Electromagnetism Second Edition I S Grant and W R Phillips Statistics R J Barlow Solid State Physics Second Edition J R Hook and H E Hall Quantum Mechanics F Mandl Particle Physics Second Edition B R Martin and G Shaw The Physics of Stars Second Edition A C Phillips Computing for Scientists R J Barlow and A R Barnett Written by a physicist Statistics is tailored to the needs of physical scientists containing and explaining all they need to know It concentrates on parameter estimation especially the methods of Least Squares and Maximum Likelihood but other techniques such as hypothesis testing Bayesian statistics and non parametric methods are also included Intended for reasonably numerate scientists it contains all the basic formulae their derivations and applications together with some more advanced ones Statistics features Comprehensive coverage of the essential techniques physical scientists are likely to need A wealth of examples and problems with their answers Flexible structure and organisation allows it to be used as a course text and a reference A review of the basics so that little prior knowledge is required *Functional Methods in Quantum Field Theory and Statistical Physics* A.N. Vasiliev,2019-01-22 Providing a systematic introduction to the techniques which are fundamental to quantum field theory this book pays special attention to the use of these techniques in a wide variety of areas including ordinary quantum mechanics quantum mechanics in the second quantized formulation relativistic quantum field theory Euclidean field theory quant **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 method In addition they introduce quantum Monte Carlo methods aspects of simulations of growth phenomena and other systems far from equilibrium and the Monte Carlo Renormalization Group approach to critical phenomena The book includes many applications examples and current references and exercises to help the reader

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