



METHODS OF QUANTUM FIELD THEORY IN STATISTICAL PHYSICS

A. A. Abrikosov, L.P. Gorkov, & I. E. Dzyaloshinski
Revised English Edition Translated and Edited by Richard A. Silverman

Methods Of Statistical Physics

Josef Honerkamp

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Methods of Statistical Physics Aleksandr Il'ic Akhiezer,S. V. Peletinskii,1981 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

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 execute Monte Carlo programs and new methods to analyze the data generated by these programs Brief descriptions of these and other developments together with numerous additional references are included in a new chapter Recent Trends in Monte Carlo Simulations which has been written for this second edition Typographical corrections 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 condensed matter physics and materials science computational physics and applied mathematics etc

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Balian,2006-11-23 This popular often cited text returns in a softcover edition to provide a thorough introduction to statistical physics and thermodynamics and to exhibit the universal 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 II applies statistical methods to systems governed by quantum effects in particular to solid state physics explaining properties due to the crystal structure or to the lattice excitations or to the electrons The last chapters are devoted to non equilibrium processes and to kinetic equations with many applications included

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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 **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 **Computational Statistical Physics** K.-H. Hoffmann,Michael Schreiber,2013-03-14 In recent years statistical physics has made significant progress as a result of advances in numerical techniques While good textbooks exist on the general aspects of statistical physics the numerical methods and the new developments based on large scale computing are not usually adequately presented In this

book 16 experts describe the application of methods of statistical physics to various areas in physics such as disordered materials quasicrystals semiconductors and also to other areas beyond physics such as financial markets game theory evolution and traffic planning in which statistical physics has recently become significant In this way the universality of the underlying concepts and methods such as fractals random matrix theory time series neural networks evolutionary algorithms becomes clear The topics are covered by introductory tutorial presentations Methods of Quantum Field Theory in Statistical Physics Aleksey Alekseyevich Abrikosov,1963 *Methods of Quantum Field Theory in Statistical Physics* Aleksei Alekseevich Abrikosov,Lev Petrovich Gor'kov,I. J. Džalošinskij,Igor Erhielevich Dzyaloshinskii,1963 **Methods of Quantum Field Theory in Statistical Physics** Aleksej Alekseevič Abrikosov,1975 **Applications of the Monte Carlo Method in Statistical Physics** Artur Baumgärtner,1984 This Topics volume 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 Back cover

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