



Methods Of Statistical Physics

K. Murthy



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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 symmetries. 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. 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. **Methods of Statistical Physics** Aleksandr Il'ic Akhiezer, S. V. Peletminskii, 1981

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

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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 remind non French 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 examinations 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 France 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 disciplines is an essential element of modern scientific culture

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

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