

Lecture Notes in Physics

Luca Lista

# Statistical Methods for Data Analysis

With Applications in Particle Physics

*Third Edition*



Springer

# Methods Of Statistical Physics

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



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**Methods of Statistical Physics** Tomoyasu Tanaka, 2002-03-14 A graduate level textbook on thermal physics covering classical thermodynamics statistical mechanics and its applications

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, 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

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

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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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*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

*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

[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

[Statistical Physics I](#) Morikazu Toda, Ryogo Kubo, Nobuhiko Saito, 2011-09-27 *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

[Quantum Field Theoretical Methods in Statistical Physics](#) Alekseĭ Alekseevich Abrikosov, Lev Petrovich Gor'kov, Igor E. Dzjalošinskij, 1965-12

[Statistical Mechanics with Applications to Physics and Chemistry](#) Richard Chace Tolman, 1927

[Applications Of Field Theory Methods In Statistical Physics Of Nonequilibrium Systems](#) Bohdan I Lev, Anatoly G Zagorodny, 2021-02-18 This book formulates a unified approach to the description of many particle systems combining the methods of statistical physics and quantum field theory The benefits of such an approach are in the description of phase transitions during the formation of new spatially inhomogeneous phases as well in describing quasi equilibrium systems with spatially inhomogeneous particle distributions for example self gravitating systems and metastable states The validity of the methods used in the statistical description of many particle systems and models theory of phase transitions included is discussed and compared The idea of using the quantum field theory approach and related topics path integration saddle point and stationary phase methods Hubbard Stratonovich transformation mean field theory and functional integrals is described in detail to facilitate further understanding and explore more applications To some extent the book could be treated as a brief encyclopedia of methods applicable to the statistical description of spatially inhomogeneous equilibrium and metastable particle distributions Additionally the general approach is not only formulated but also applied to solve various practically important problems gravitating gas Coulomb like systems dusty plasmas thermodynamics of cellular structures non uniform dynamics of

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