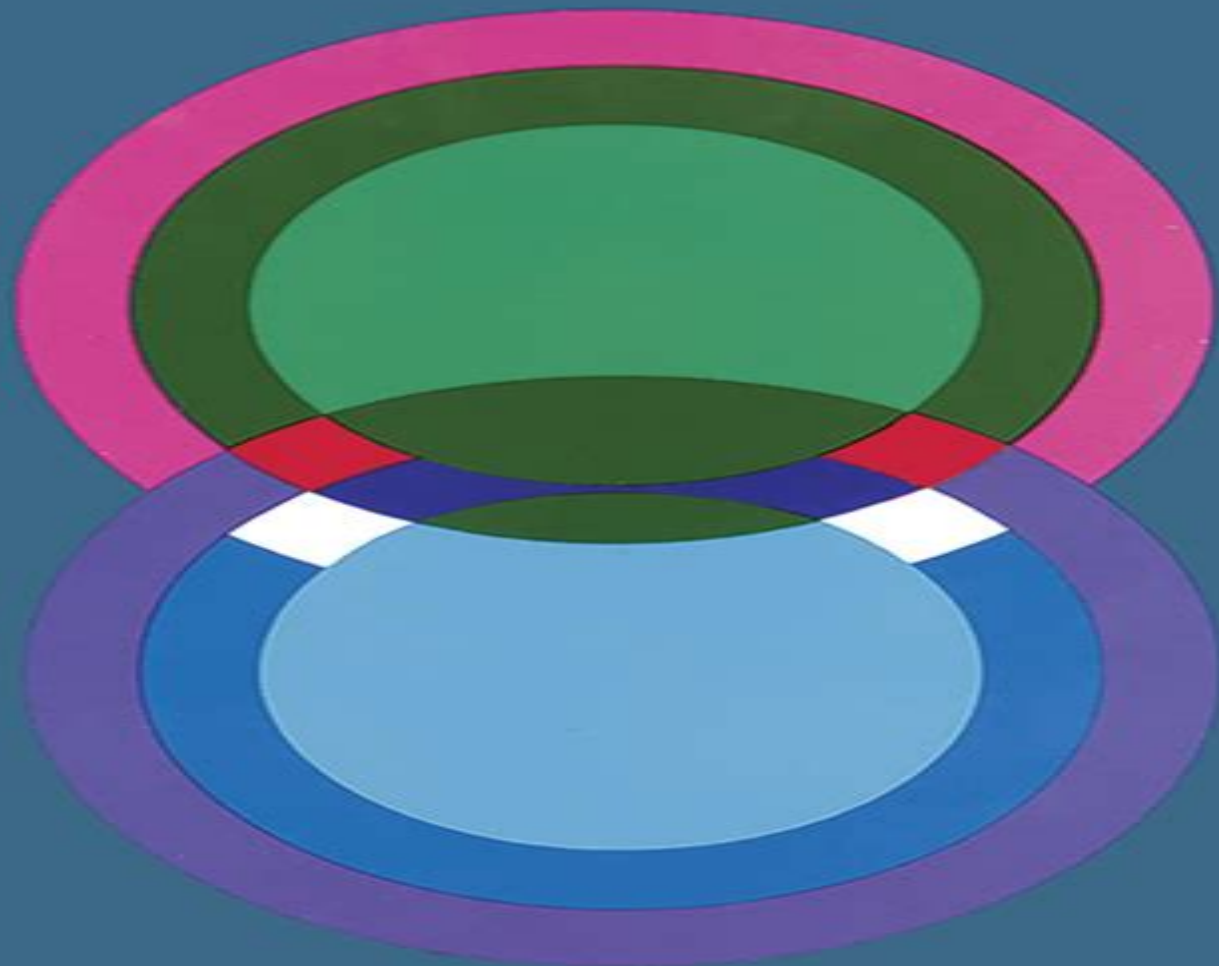




METHODS OF QUANTUM FIELD THEORY IN STATISTICAL PHYSICS

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Methods Of Statistical Physics

Tomoyasu Tanaka



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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 in Statistical Mechanics Osvaldo Civitarese, Manuel Gadella, 2020-09-07 This book presents a variety of techniques for tackling phenomena that are not amenable to the conventional approach based on the concept of probabilities. The methods described rely on the use of path integration, thermal Green functions, time temperature propagators, Liouville operators, second quantization and field correlators at finite density and temperature. Also exploring the statistical mechanics of unstable quantum systems, the book is intended as a supplementary or reference text for use in one semester graduate courses on Quantum Mechanics.

Thermodynamics, Electromagnetism and Mathematical Methods in Physics [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 *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

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