

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

<u>Functional Methods In Quantum Field Theory And Statistical Physics</u>

Jan Rzewuski

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Mechanics ,1968 **Statistical Approach to Quantum Field Theory** Andreas Wipf,2012-10-28 Over the past few decades the powerful methods of statistical physics and Euclidean quantum field theory have moved closer together with common tools based on the use of path integrals The interpretation of Euclidean field theories as particular systems of statistical physics has opened up new avenues for understanding strongly coupled quantum systems or quantum field theories at zero or finite temperatures Accordingly the first chapters of this book contain a self contained introduction to path integrals in Euclidean quantum mechanics and statistical mechanics. The resulting high dimensional integrals can be estimated with the help of Monte Carlo simulations based on Markov processes The most commonly used algorithms are presented in detail so as to prepare the reader for the use of high performance computers as an experimental tool for this burgeoning field of theoretical physics Several chapters are then devoted to an introduction to simple lattice field theories and a variety of spin systems with discrete and continuous spins where the ubiquitous Ising model serves as an ideal guide for introducing the fascinating area of phase transitions As an alternative to the lattice formulation of quantum field theories variants of the flexible renormalization group methods are discussed in detail Since according to our present day knowledge all fundamental interactions in nature are described by gauge theories the remaining chapters of the book deal with gauge theories without and with matter This text is based on course tested notes for graduate students and as such its style is essentially pedagogical requiring only some basics of mathematics statistical physics and quantum field theory Yet it also contains some more sophisticated concepts which may be useful to researchers in the field Each chapter ends with a number of problems guiding the reader to a deeper understanding of some of the material presented in the main text and in most cases also features some listings of short useful computer programs **Functional Methods in Quantum Field Theory and Statistical Mechanics** ,1968 **Introduction to Quantum Field Theory** V.lG. Kiselev, Ya.M. Shnir, A.Ya. Tregubovich, 2000-11-17 This text explains the features of quantum and statistical field systems that result from their field theoretic nature and are common to different physical contexts It supplies the practical tools for carrying out calculations and discusses the meaning of the results The central concept is that of effective action or free energy and the main technical tool is the path integral although other formalisms are also mentioned. The author emphasizes the simplest models first then progresses to discussions of real systems before addressing more general and rigorous conclusions. The book is structured around carefully selected problems which are solved in detail 4th winter school of theoretical physics in Karpacz. 17 February - 2 March, 1967. Functional methods in quantum field theory and statistical mecahnics. Vol. 2: The application of functional methods to the particular problems of ;quantum field theory and statistical mechanics Quantum Field Theory and Critical Phenomena Jean Zinn-Justin, 2021 This work provides a Jan Lopuszanski, 1968 systematic introduction to quantum field theory and renormalization group as applied to particle physics and continuous macroscopic phase transitions Functional Methods in Quantum Field Theory and Statistical Mechanics Jan

Rzewuski,1968

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