



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

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A.N. Vasiliev,1998-07-28 Providing a systematic introduction to the techniques which are fundamental to quantum field theory this book pays special attention to the use of these techniques in a wide variety of areas including ordinary quantum mechanics quantum mechanics in the second quantized formulation relativistic quantum field theory Euclidean field theory quantum statistics at finite temperature and the classical statistics of nonideal gas and spin systems The extended chapter on variational methods and functional Legendre transformations contains completely original material Methods of Quantum Field Theory in Statistical Physics A. A. Abrikosov,L. P. Gorkov,I. E. Dzyaloshinski,1987-05 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

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Statistical Field Theory: Volume 2, Strong Coupling, Monte Carlo Methods, Conformal Field Theory and Random Systems Claude Itzykson,Jean-Michel Drouffe,1991-03-29 Volume 1 From Brownian Motion to

Renormalization and Lattice Gauge Theory Volume 2 Strong Coupling Monte Carlo Methods Conformal Field Theory and Random Systems This two volume work provides a comprehensive and timely survey of the application of the methods of quantum field theory to statistical physics a very active and fruitful area of modern research The first volume provides a pedagogical introduction to the subject discussing Brownian motion its anticommutative counterpart in the guise of Onsager's solution to the two dimensional Ising model the mean field or Landau approximation scaling ideas exemplified by the Kosterlitz Thouless theory for the XY transition the continuous renormalization group applied to the standard phi to the fourth theory the simplest typical case and lattice gauge theory as a pathway to the understanding of quark confinement in quantum chromodynamics The second volume covers more diverse topics including strong coupling expansions and their analysis Monte Carlo simulations two dimensional conformal field theory and simple disordered systems The book concludes with a chapter on random geometry and the Polyakov model of random surfaces which illustrates the relations between

string theory and statistical physics The two volumes that make up this work will be useful to theoretical physicists and applied mathematicians who are interested in the exciting developments which have resulted from the synthesis of field theory and statistical physics **Mathematical Foundations of Quantum Field Theory** Albert Schwarz, Al'bert Solomonovich Shvarts, 2020 The book is very different from other books devoted to quantum field theory both in the style of exposition and in the choice of topics Written for both mathematicians and physicists the author explains the theoretical formulation with a mixture of rigorous proofs and heuristic arguments references are given for those who are looking for more details The author is also careful to avoid ambiguous definitions and statements that can be found in some physics textbooks In terms of topics almost all other books are devoted to relativistic quantum field theory conversely this book is concentrated on the material that does not depend on the assumptions of Lorentz invariance and or locality It contains also a chapter discussing application of methods of quantum field theory to statistical physics in particular to the derivation of the diagram techniques that appear in thermo field dynamics and Keldysh formalism It is not assumed that the reader is familiar with quantum mechanics the book contains a short introduction to quantum mechanics for mathematicians and an appendix devoted to some mathematical facts used in the book Publisher's description *Statistical Approach to Quantum Field Theory* Andreas Wipf, 2012-10-29 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

Quantum Field Theory in Condensed Matter Physics Alexei M. Tsvelik, 2007-01-18 This book is a course in modern quantum field theory as seen through the eyes of a theorist working in condensed matter physics. It contains a gentle introduction to the subject and therefore can be used even by graduate students. The introductory parts include a derivation of the path integral representation, Feynman diagrams and elements of the theory of metals including a discussion of Landau Fermi liquid theory. In later chapters the discussion gradually turns to more advanced methods used in the theory of strongly correlated systems. The book contains a thorough exposition of such non-perturbative techniques as 1/N expansion, bosonization, Abelian and non-Abelian conformal field theory and theory of integrable systems. The book is intended for graduate students, postdoctoral associates and independent researchers working in condensed matter physics.

Functional Integrals in Quantum Field Theory and Statistical Physics V.N. Popov, 2001-11-30 Functional integration is one of the most powerful methods of contemporary theoretical physics, enabling us to simplify, accelerate and make clearer the process of the theoretician's analytical work. Interest in this method and the endeavour to master it creatively grows incessantly. This book presents a study of the application of functional integration methods to a wide range of contemporary theoretical physics problems. The concept of a functional integral is introduced as a method of quantizing finite-dimensional mechanical systems as an alternative to ordinary quantum mechanics. The problems of systems quantization with constraints and the manifolds quantization are presented here for the first time in a monograph. The application of the functional integration methods to systems with an infinite number of degrees of freedom allows one to uniquely introduce and formulate the diagram perturbation theory in quantum field theory and statistical physics. This approach is significantly simpler than the widely accepted method using an operator approach.

Functional Methods in Quantum Field Theory and Statistical Mechanics, 1968 *Functional Methods in Quantum Field Theory and Statistical Mechanics* Jan Rzewuski, 1968 Statistical Field Theory Claude Itzykson, Jean-Michel Drouffe, 1991 Notes after each chapter Functional methods in quantum field theory and statistical mechanics, 1968 *Functional methods in quantum field theory and statistical mechanics : IV Winter School of Theoretical Physics in Karpacz, February 17 - March 2, 1967.* 2. *The application of functional methods to the particular problems of quantum field theory and statistical mechanics* Zimowa Szkoła Fizyki Teoretycznej, 1969

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