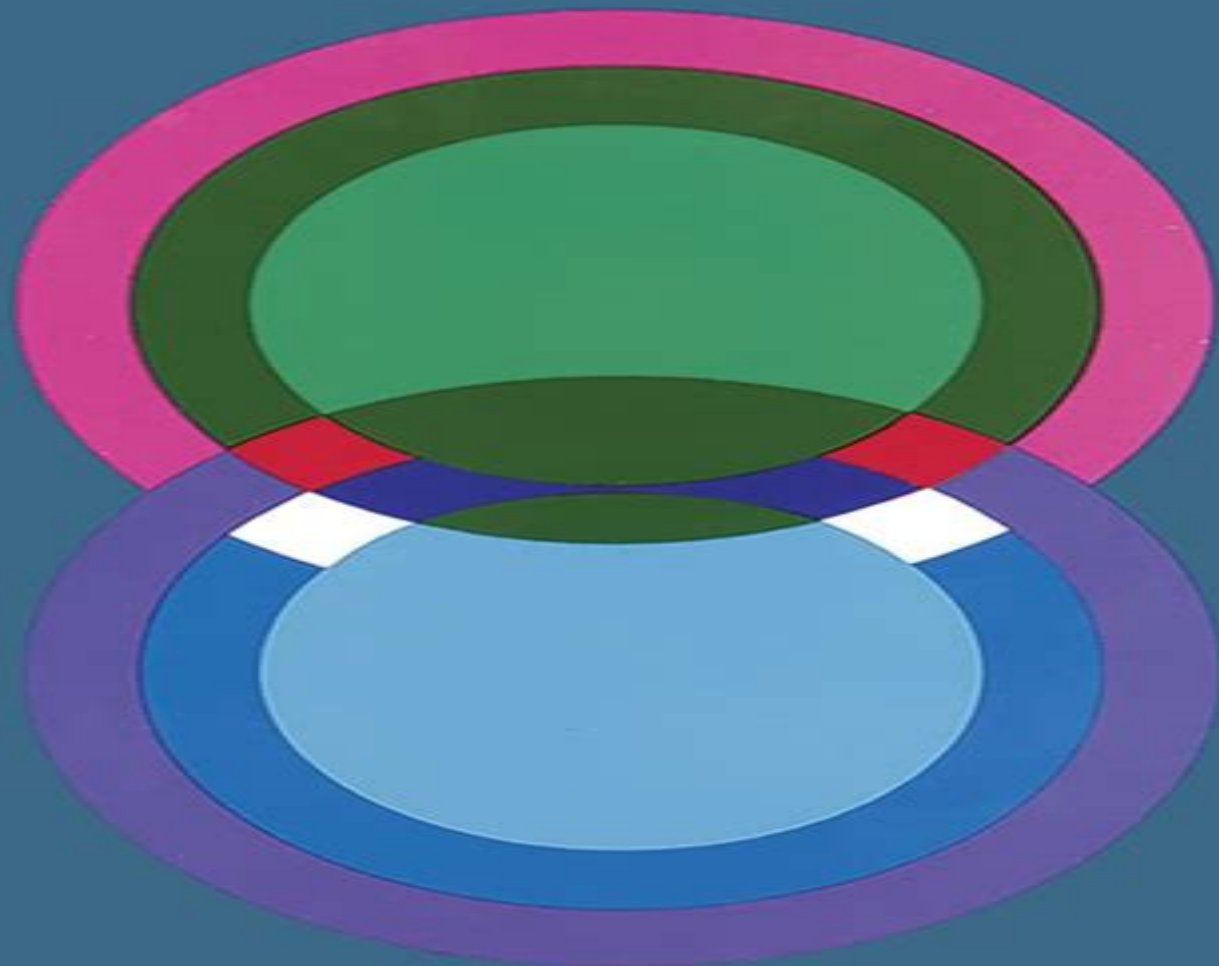




METHODS OF QUANTUM FIELD THEORY IN STATISTICAL PHYSICS

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

Revised English Edition Translated and Edited by Richard A. Silverman

Methods Of Quantum Field Theory In Statistical Physics

Aleksej Alekseevič Abrikosov



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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

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 ϕ^4 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

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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. Statistical Field Theory Claude Itzykson, Jean-Michel Drouffe, 1991 Notes after each chapter **Functional Methods in Quantum Field Theory and Statistical Mechanics**, 1968 **New Problems, Methods and Techniques in Quantum Field Theory and Statistical Mechanics** Mario Rasetti, 1990 <http://www.worldscientific.com/worldscibooks/10.1142/1095>

Introduction to Quantum Field Theory V.I.G. 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. 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 gravitating systems etc *Statistical Field Theory: Volume 1, From Brownian Motion to Renormalization and Lattice Gauge Theory* Claude Itzykson, Jean-Michel Drouffe, 1991-03-29 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 is provided in two volumes 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 ϕ^4 to the fourth theory the simplest typical case and lattice gauge theory as a pathway to the understanding of quark confinement in quantum chromodynamics

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Methods Of Quantum Field Theory In Statistical Physics**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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