

STATISTICAL MECHANICS OF MAGNETICALLY ORDERED SYSTEMS

Edited by

Yu. A. Izyumov



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Statistical Mechanics Of Magnetically Ordered Systems

Y.A. Izyumov



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Statistical Mechanics of Magnetically Ordered Systems I. U. riĭ Aleksandrovich Iziĭmov, 1988-09-30 Handsomely produced monograph provides graduate students and researchers with elegantly lucid accounts of some modern aspects of the topic to which the title refers The five chapters bear these titles Statistical mechanics of the Heisenberg ferromagnet Statistical mechanics of electronic models o **Statistical Mechanics Of Magnetically Ordered Systems** Y.A. Izyumov,

Electromagnetic Phenomena in Matter Igor N. Toptygin, 2015-05-04 Modern electrodynamics in different media is a wide branch of electrodynamics which combines the exact theory of electromagnetic fields in the presence of electric charges and currents with statistical description of these fields in gases plasmas liquids and solids dielectrics conductors and superconductors It is widely used in physics and in other natural sciences such as astrophysics and geophysics biophysics ecology and evolution of terrestrial climate and in various technological applications radio electronics technology of artificial materials laser based technological processes propagation of bunches of charges particles linear and nonlinear electromagnetic waves etc Electrodynamics of matter is based on the exact fundamental microscopic electrodynamics but is supplemented with specific descriptions of electromagnetic fields in various media using the methods of statistical physics quantum mechanics physics of condensed matter including theory of superconductivity physical kinetics and plasma physics This book presents in one unique volume a systematic description of the main electrodynamic phenomena in matter A large variety of theoretical approaches used in describing various media Numerous important manifestations of electrodynamics in matter magnetic materials superconductivity magnetic hydrodynamics holography radiation in crystals solitons etc A description of the applications used in different branches of physics and many other fields of natural sciences Describes the whole complexity of electrodynamics in matter including material at different levels Oriented towards 3 4 year bachelors masters and PhD students as well as lectures and engineers and scientists working in the field The reader will need a basic knowledge of general physics higher mathematics classical mechanics and microscopic fundamental electrodynamics at the standard university level All examples and problems are described in detail in the text to help the reader learn how to solve problems Advanced problems are marked with one asterisk and the most advanced ones with two asterisks Some problems are recommended to be solved first and are marked by filled dots they are more general and important or contain results used in other problems **Hubbard Operators in the Theory of Strongly Correlated Electrons** S. G. Ovchinnikov, V. V. Val'kov, V. V. Val'kov, 2004 This book provides the first systematic discourse on a very peculiar approach to the theory of strongly correlated systems Hubbard X operators have been known for a long time but have not been widely used because of their awkward algebra The book shows that it is possible to deal with X operators even in the general multilevel localeigenstate system and not just in the case of the nondegenerate Hubbard model X operators provide the natural language for describing quasiparticles in the Hubbard subbands with unusual doping and temperature dependent band

structures Operator Theory and Differential Equations Anatoly G. Kusraev, Zhanna D. Totieva, 2021-01-13 This volume features selected papers from The Fifteenth International Conference on Order Analysis and Related Problems of Mathematical Modeling which was held in Vladikavkaz Russia on 15-20th July 2019. Intended for mathematicians specializing in operator theory, functional spaces, differential equations, or mathematical modeling, the book provides a state-of-the-art account of various fascinating areas of operator theory ranging from various classes of operators (positive operators, convolution operators, backward shift operators, singular and fractional integral operators, partial differential operators) to important applications in differential equations, inverse problems, approximation theory, metric theory of surfaces, the Hubbard model, social stratification models, and viscous incompressible fluids **50 Years Of The Renormalization Group: Dedicated To The Memory Of Michael E Fisher** Amnon Aharony, Ora Entin-wohlman, David A Huse, Leo Radzihovsky, 2024-07-26 The contributions in the book are devoted to the memory of Michael E Fisher and hence include many personal memories from people whose work was influenced by him. Also, the book is a collection of articles from leaders in the field of phase transitions and critical phenomena to celebrate 50 years of the renormalization group and the 1972 paper by Wilson and Fisher. Many of the articles review in tutorial form the progress in the fields of phase transitions and the renormalization group **The One-Dimensional Hubbard Model** Fabian H. L. Essler, Holger Frahm, Frank Göhmann, Andreas Klümper, Vladimir E. Korepin, 2005-02-07 The description of solids at a microscopic level is complex, involving the interaction of a huge number of its constituents such as ions or electrons. It is impossible to solve the corresponding many-body problems analytically or numerically, although much insight can be gained from the analysis of simplified models. An important example is the Hubbard model, which describes interacting electrons in narrow energy bands and which has been applied to problems as diverse as high T_c superconductivity, band magnetism, and the metal-insulator transition. This book presents a coherent, self-contained account of the exact solution of the Hubbard model in one dimension. The early chapters will be accessible to beginning graduate students with a basic knowledge of quantum mechanics and statistical mechanics. The later chapters address more advanced topics and are intended as a guide for researchers to some of the more topical results in the field of integrable models **Exactly Solvable Models of Strongly Correlated Electrons** Vladimir E. Korepin, Fabian H. L. Essler, 1994 Systems of strongly correlated electrons are at the heart of recent developments in condensed matter theory. They have applications to phenomena like high T_c superconductivity and the fractional quantum Hall effect. Analytical solutions to such models, though mainly limited to one spatial dimension, provide a complete and unambiguous picture of the dynamics involved. This volume is devoted to such solutions obtained using the Bethe Ansatz and concentrates on the most important of such models, the Hubbard model. The reprints are complemented by reviews at the start of each chapter and an extensive bibliography Dynamic Spin-Fluctuation Theory of Metallic Magnetism Nikolai B. Melnikov, Boris I. Reser, 2018-08-02 This book presents a theoretical framework for magnetism in

ferromagnetic metals and alloys at finite temperatures The objective of the book is twofold First it gives a detailed presentation of the dynamic spin fluctuation theory that takes into account both local and long wave spin fluctuations with any frequency The authors provide a detailed explanation of the fundamental role of quantum spin fluctuations in the mechanism of metallic magnetism and illustrate the theory with concrete examples The second objective of the book is to give an accurate and self contained presentation of many body techniques such as the functional integral method and Green's functions via a number of worked examples These computational methods are of great use to solid state physicists working in a range of specialties The book is intended primarily for researchers but can also be used as textbook The introductory chapters offer clear and complete derivations of the fundamentals which makes the presentation self contained The main text is followed by a number of well organized appendices that contain a detailed presentation of the necessary many body techniques and computational methods The book also includes a list of symbols and detailed index This volume will be of interest to a wide range of physicists interested in magnetism and solid state physics in general both theoreticians and experimentalists

Models of Quantum Matter Hans-Peter Ecker, 2019-07-29 An important task of theoretical quantum physics is the building of idealized mathematical models to describe the properties of quantum matter This book provides an introduction to the arguably most important method for obtaining exact results for strongly interacting models of quantum matter the Bethe ansatz It introduces and discusses the physical concepts and mathematical tools used to construct realistic models for a variety of different fields including condensed matter physics and quantum optics The various forms of the Bethe ansatz algebraic coordinate multicomponent and thermodynamic Bethe ansatz and Bethe ansatz for finite systems are then explained in depth and employed to find exact solutions for the physical properties of the integrable forms of strongly interacting quantum systems The Bethe ansatz is one of the very few methodologies which can calculate physical properties non perturbatively Arguably it is the only such method we have which is exact This means once the model has been set up no further approximations or assumptions are necessary and the relevant physical properties of the model can be computed exactly Furthermore an infinite set of conserved quantities can be obtained The quantum mechanical model under consideration is fully integrable This makes the search for quantum models which are amenable to an exact solution by the Bethe ansatz and which are quantum integrable so important and rewarding The exact solution will provide benchmarks for other models which do not admit an exact solution Bethe ansatz techniques provide valuable insight into the physics of strongly correlated quantum matter

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