

Graduate Texts in Physics

Alexandre Zagoskin

# Quantum Theory of Many-Body Systems

Techniques and Applications

*Second Edition*



Springer

# Quantum Theory Of Many Body Systems Techniques And Applications

**Robert R. Redfield**



## **Quantum Theory Of Many Body Systems Techniques And Applications:**

**Quantum Theory of Many-Body Systems** Alexandre Zagoskin, 2012-12-06 Intended for graduate students in physics and related fields this text is a self contained treatment of the physics of many body systems from the point of view of condensed matter The approach quite traditionally uses the mathematical formalism of quasiparticles and Green s functions In particular it covers all the important diagram techniques for normal and superconducting systems including the zero temperature perturbation theory and the Matsubara Keldysh and Nambu Gor kov formalisms The aim is not to be exhaustive but to present just enough detail to enable the student to follow the current research literature or to apply the techniques to new problems Many of the examples are drawn from mesoscopic physics which deals with systems small enough that quantum coherence is maintained throughout their volume and which therefore provides an ideal testing ground for many body theories The book begins by introducing the Green s function for one particle systems using Feynman path integrals general perturbation theory and second quantization It then turns to the usual zero temperature formalism discussing the properties and physical meaning of the Green s function for many body systems and then developing the diagram techniques of perturbation theory The theory is extended to finite temperatures including a discussion of the Matsubara formalism as well as the Keldysh technique for essentially nonequilibrium systems The final chapter is devoted to applications of the techniques to superconductivity including discussions of the superconducting phase transition elementary excitations transport Andreev reflections and Josephson junctions Problems at the end of each chapter help to guide learning an to

Quantum Theory of Many-body Systems Alexandre M. Zagoskin, 1998      *Quantum Theory of Many-Body Systems* Alexandre Zagoskin, 2014-06-26 This text presents a self contained treatment of the physics of many body systems from the point of view of condensed matter The approach quite traditionally uses the mathematical formalism of quasiparticles and Green s functions In particular it covers all the important diagram techniques for normal and superconducting systems including the zero temperature perturbation theory and the Matsubara Keldysh and Nambu Gor kov formalism as well as an introduction to Feynman path integrals This new edition contains an introduction to the methods of theory of one dimensional systems bosonization and conformal field theory and their applications to many body problems Intended for graduate students in physics and related fields the aim is not to be exhaustive but to present enough detail to enable the student to follow the current research literature or to apply the techniques to new problems Many of the examples are drawn from mesoscopic physics which deals with systems small enough that quantum coherence is maintained throughout their volume and which therefore provides an ideal testing ground for many body theories      Many-Body Approach to Electronic Excitations Friedhelm Bechstedt, 2014-12-01 The many body theoretical basis and applications of theoretical spectroscopy of condensed matter e g crystals nanosystems and molecules are unified in one advanced text for readers from graduate students to active researchers in the field The theory is developed from first principles including fully the electron electron

interaction and spin interactions It is based on the many body perturbation theory a quantum field theoretical description and Green's functions The important expressions for ground states as well as electronic single particle and pair excitations are explained Based on single particle and two particle Green's functions the Dyson and Bethe Salpeter equations are derived They are applied to calculate spectral and response functions Important spectra are those which can be measured using photoemission inverse photoemission optical spectroscopy and electron energy loss inelastic X ray spectroscopy Important approximations are derived and discussed in the light of selected computational and experimental results Some numerical implementations available in well known computer codes are critically discussed The book is divided into four parts i In the first part the many electron systems are described in the framework of the quantum field theory The electron spin and the spin orbit interaction are taken into account Sum rules are derived ii The second part is mainly related to the ground state of electronic systems The total energy is treated within the density functional theory The most important approximations for exchange and correlation are highlighted iii The third part is essentially devoted to the description of charged electronic excitations such as electrons and holes Central approximations as Hedin's GW and the T matrix approximation are discussed iv The fourth part is focused on response functions measured in optical and loss spectroscopies and neutral pair or collective excitations

*Electricity and Magnetism Fundamentals* Lakshman Kalyan, 2025-02-20

*Electricity and Magnetism Fundamentals* offers a comprehensive journey into the realm of electromagnetism exploring both theoretical principles and practical applications This guide is tailored for students researchers and enthusiasts seeking a deeper understanding of electromagnetism We cover fundamental principles including Maxwell's equations electromagnetic waves and electromagnetic induction The book delves into practical applications in everyday life such as wireless communication technologies medical imaging devices power generation and transportation systems Real world examples and case studies illustrate how electromagnetism shapes modern technology and society The book integrates theoretical concepts with experimental techniques encouraging readers to apply theoretical knowledge in practical settings Hands on experiments and demonstrations foster deeper insights into electromagnetism phenomena With contributions from experts across disciplines we offer insights into electromagnetism's role in physics engineering biology and beyond Rich illustrations diagrams and photographs enhance the learning experience making complex concepts more accessible *Electricity and Magnetism Fundamentals* is an essential resource for anyone seeking to understand electromagnetism's impact on diverse scientific and technological fields

*Chirality, Magnetism and Magnetoelectricity* Eugene Kamenetskii, 2021-03-27

This book discusses theoretical and experimental advances in metamaterial structures which are of fundamental importance to many applications in microwave and optical wave physics and materials science Metamaterial structures exhibit time reversal and space inversion symmetry breaking due to the effects of magnetism and chirality The book addresses the characteristic properties of various symmetry breaking processes by studying field matter interaction with use of

conventional electromagnetic waves and novel types of engineered fields twisted photon fields toroidal fields and magnetoelectric fields In a system with a combined effect of simultaneous breaking of space and time inversion symmetries one observes the magnetochiral effect Another similar phenomenon featuring space time inversion symmetries is related to use of magnetoelectric materials Cross coupling of the electric and magnetic components in these material structures leading to the appearance of new magnetic modes with an electric excitation channel electromagnons and skyrmions has resulted in a wealth of strong optical effects such as directional dichroism magnetochiral dichroism and rotatory power of the fields This book contains multifaceted contributions from international leading experts and covers the essential aspects of symmetry breaking effects including theory modeling and design proven and potential applications in practical devices fabrication characterization and measurement It is ideally suited as an introduction and basic reference work for researchers and graduate students entering this field

**Conformal Field Theory** Philippe Francesco, Pierre Mathieu, David Sénéchal, 1997 Filling an important gap in the literature this comprehensive text develops conformal field theory from first principles The treatment is self contained pedagogical and exhaustive and includes a great deal of background material on quantum field theory statistical mechanics Lie algebras and affine Lie algebras The many exercises with a wide spectrum of difficulty and subjects complement and in many cases extend the text The text is thus not only an excellent tool for classroom teaching but also for individual study Intended primarily for graduate students and researchers in theoretical high energy physics mathematical physics condensed matter theory statistical physics the book will also be of interest in other areas of theoretical physics and mathematics It will prepare the reader for original research in this very active field of theoretical and mathematical physics

**Handbook of Nanophysics** Klaus D. Sattler, 2010-09-17 Providing the framework for breakthroughs in nanotechnology this landmark publication is the first comprehensive reference to cover both fundamental and applied physics at the nanoscale After discussing the theoretical principles and measurements of nanoscale systems the organization of the set follows the historical development of nanoscience Each peer reviewed chapter presents a didactic treatment of the physics underlying the nanoscale materials applications and detailed experimental results State of the art scientific content is enriched with fundamental equations and illustrations many in color

**Many-Body Methods for Atoms and Molecules** Rajat Kumar Chaudhuri, Sudip Kumar Chattopadhyay, 2017-02-17 Brings Readers from the Threshold to the Frontier of Modern Research Many Body Methods for Atoms and Molecules addresses two major classes of theories of electron correlation the many body perturbation theory and coupled cluster methods It discusses the issues related to the formal development and consequent numerical implementation of the methods from the standpoint of a practicing theoretician The book will enable readers to understand the future development of state of the art multi reference coupled cluster methods as well as their perturbative counterparts The book begins with an introduction to the issues relevant to the development of correlated methods in general It next gives a formally rigorous treatment of aspects that pave the foundation toward the

theoretical development of methods capable of tackling problems of electronic correlation The authors go on to cover perturbation theory first in a fundamental way and then in the multi reference context They also describe the idea of state specific theories Fock space based multi reference coupled cluster methods and basic issues of the single reference coupled cluster method The book concludes with state of the art methods of modern electronic structure **Introduction to**

**Statistical Physics** Silvio Salinas, 2013-03-09 Intended for beginning graduate students or advanced undergraduates this text covers the statistical basis of equilibrium thermodynamics both classical and quantum including examples from solid state physics It also treats some topics of more recent interest such as phase transitions and non equilibrium phenomena The approach to equilibrium statistical mechanics is based on the Gibbs microcanonical ensemble The presentation introduces modern ideas such as the thermodynamic limit and the equivalence of ensembles and uses simple models ideal gas Einstein solid ideal paramagnet to make the mathematical ideas clear Frequently used mathematical methods are reviewed in an appendix The book begins with a review of statistical methods and classical thermodynamics making it suitable for students from a variety of backgrounds Classical thermodynamics is treated in the in the context of the classical ideal gas and the canonical and grand canonical ensembles The discussion of quantum statistical mechanics includes Bose and Fermi gases the Bose Einstein condensation phonons and magnons Phase transitions are first treated classically using the van der Waals and Curie Weiss phenomenological models as examples and then quantum mechanically the Ising model scaling theory and renormalization The book concludes with two chapters on nonequilibrium phenomena one using Boltzmann's approach the other based on stochastic models Exercises at the end of each chapter are an integral part of the course clarifying and extending topics discussed in the text Hints and solutions can be found on the author's web site *Air Force Research*

*Resumés* , **Geometry, Particles, and Fields** Bjoern Felsager, 2012-12-06 Geometry Particles and Fields is a direct reprint of the first edition From a review of the first edition The present volume is a welcome edition to the growing number of books that develop geometrical language and use it to describe new developments in particle physics It provides clear treatment that is accessible to graduate students with a knowledge of advanced calculus and of classical physics The second half of the book deals with the principles of differential geometry and its applications with a mathematical machinery of very wide range Here clear line drawings and illustrations supplement the multitude of mathematical definitions This section in its clarity and pedagogy is reminiscent of Gravitation by Charles Misner Kip Thorne and John Wheeler Felsager gives a very clear presentation of the use of geometric methods in particle physics For those who have resisted learning this new language his book provides a very good introduction as well as physical motivation The inclusion of numerous exercises worked out renders the book useful for independent study also I hope this book will be followed by others from authors with equal flair to provide a readable excursion into the next step PHYSICS TODAY Bjoern Felsager is a high school teacher in Copenhagen Educated at the Niels Bohr Institute he has taught at the Universities of Copenhagen and Odense

### **First-Principles and Machine Learning Study of Anharmonic Vibration and Dielectric Properties of Materials**

Tomohito Amano, 2025-07-01 The book presents the author's development of two first principles methods to calculate dielectric properties of materials based on anharmonic phonon and machine learning and demonstrates an in depth analysis of anharmonic crystals and molecular liquids The anharmonic phonon method combined with Born effective charges is useful to study dielectric properties of crystals The recently developed self consistent phonon theory SCPH enables accurate simulations in strongly anharmonic materials The author reveals that the combination of SCPH with the four phonon scattering term accurately reproduces experimental spectra and discusses how anharmonic phonon self energies affect the dielectric properties The second method is molecular dynamics with Wannier centers the mass centers of Wannier functions The author constructs a machine learning model that learns Wannier centers for each chemical bond from atomic coordinates to accurately predict the dipole moments The developed method is in principle applicable to molecules of arbitrary size Its effectiveness is demonstrated and the dielectric properties of several alcohols including dipole moments dielectric constants and absorption spectra are analyzed This book benefits students and researchers interested in anharmonic phonons machine learning and dielectric properties [Frontiers in Condensed Matter Physics, Vol. 5](#), 2005

**Spinors in Physics** Jean Hladik, 2012-12-06 Invented by Dirac in creating his relativistic quantum theory of the electron spinors are important in quantum theory relativity nuclear physics atomic and molecular physics and condensed matter physics Essentially they are the mathematical entities that correspond to electrons in the same way that ordinary wave functions correspond to classical particles Because of their relations to the rotation group  $SO(n)$  and the unitary group  $SU(n)$  this discussion will be of interest to applied mathematicians as well as physicists [Algebraic and Diagrammatic Methods in Many-Fermion Theory](#) Frank E. Harris, Hendrik J. Monkhorst, David L. Freeman, 2020-01-15 This text on the use of electron correlation effects in the description of the electronic structure of atoms molecules and crystals is intended for graduate students in physical chemistry and physics Modern theories of electronic structure and methods of incorporating electron correlation contributions are developed using a diagrammatic and algebraic formulation and the methods developed in the text are illustrated with examples from molecular and solid state quantum mechanics A brief Introduction is followed by chapters on operator algebra the independent particle model occupation number formalism and diagrams Additional topics include the configuration interaction method the many body perturbation theory and the coupled cluster method

*Introduction to Superstrings and M-Theory* Michio Kaku, 2012-12-06 Superstrings provocative controversial possibly untestable but unarguably one of the most interesting and active areas of research in current physics Called by some the theory of everything superstrings may solve a problem which has eluded physicists for the past 50 years the final unification of the two great theories of the twentieth century general relativity and quantum field theory Now here is a course tested comprehensive introductory graduate text on superstrings which stresses the most current areas of interest not covered in

other presentation including string field theory multi loops Teichmueller spaces conformal field theory four dimensional strings The book begins with a simple discussion of point particle theory and uses the Feynman path integral technique to unify the presentation of superstrings Prerequisites are an acquaintance with quantum mechanics and relativity This second edition has been revised and updated throughout

**Mesoscopic Physics of Complex Materials** T.S. Chow, 2012-12-06 This book is intended to provide a cross disciplinary study of the physical properties of complex fluids solids and interfaces as a function of their mesoscopic structures Because of the disorder and dissipative nature of these structures emphasis is placed on nonequilibrium phenomena These phenomena are the active research areas of soft condensed matter and it is impossible to cover them all in one book Therefore we have limited the scope by selecting a variety of important current systems that I present high values to both science and technology on the basis of my own preference and expertise and 2 have not been put together coherently in the form of a book We then show the underlying connections and parallels between topics as diverse as critical phenomena in colloidal dynamics glass state relaxation and deformation reinforced polymer composites molecular level mixing in nanocomposites and microscopic interactions of rough surfaces and interfaces At the same time each chapter is designed to be directly accessible to readers and the need for going through the previous chapters has been kept to the minimum It is a reasonably short book that is not designed to review all of the recent work that spans many disciplines Instead we attempt to establish a general framework for the fundamental understanding and the practical development of new materials that cannot be designed by the trial and error methods

Unification and Supersymmetry Rabindra N. Mohapatra, 2006-03-31 Derived from a course given at the University of Maryland for advanced graduate students this book deals with some of the latest developments in our attempts to construct a unified theory of the fundamental interactions of nature Among the topics covered are spontaneous symmetry breaking grand unified theories supersymmetry and supergravity the book starts with a quick review of elementary particle theory and continues with a discussion of composite quarks leptons Higgs bosons and CP violation it concludes with consideration of supersymmetric unification schemes in which bosons and leptons are considered in some sense equivalent The third edition will be completely revised and brought up to date particularly by including discussions of the many experimental developments in recent years

Hyperspherical Harmonics Expansion Techniques Tapan Kumar Das, 2015-11-26 The book provides a generalized theoretical technique for solving the fewbody Schrödinger equation Straight forward approaches to solve it in terms of position vectors of constituent particles and using standard mathematical techniques become too cumbersome and inconvenient when the system contains more than two particles The introduction of Jacobi vectors hyperspherical variables and hyperspherical harmonics as an expansion basis is an elegant way to tackle systematically the problem of an increasing number of interacting particles Analytic expressions for hyperspherical harmonics appropriate symmetrisation of the wave function under exchange of identical particles and calculation of matrix elements of the interaction have been presented



Applications of this technique to various problems of physics have been discussed. In spite of straight forward generalization of the mathematical tools for increasing number of particles the method becomes computationally difficult for more than a few particles. Hence various approximation methods have also been discussed. Chapters on the potential harmonics and its application to Bose Einstein condensates BEC have been included to tackle dilute system of a large number of particles. A chapter on special numerical algorithms has also been provided. This monograph is a reference material for theoretical research in the few body problems for research workers starting from advanced graduate level students to senior scientists.

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