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Many-Particle Physics THIRD EDITION



Gerald D. Mahan

Many Particle Physics

A.L. Fetter, J. D. Walecka

Many Particle Physics:

Many-Particle Physics Gerald D. Mahan, 2012-12-06 This textbook is for a course in advanced solid state theory It is aimed at graduate students in their third or fourth year of study who wish to learn the advanced techniques of solid state theoretical physics The method of Green's functions is introduced at the beginning and used throughout Indeed it could be considered a book on practical applications of Green's functions although I prefer to call it a book on physics The method of Green's functions has been used by many theorists to derive equations which when solved provide an accurate numerical description of many processes in solids and quantum fluids In this book I attempt to summarize many of these theories in order to show how Green's functions are used to solve real problems My goal in writing each section is to describe calculations which can be compared with experiments and to provide these comparisons whenever available The student is expected to have a background in quantum mechanics at the level acquired from a graduate course using the textbook by either L I Schiff A S Davydov or I Landau and E M Lifshiftz Similarly a prior course in solid state physics is expected since the reader is assumed to know concepts such as Brillouin zones and energy band theory Each chapter has problems which are an important part of the lesson the problems often provide physical insights which are not in the text Sometimes the answers to the problems are provided but usually not Many-Particle Physics Gerald D. Mahan, 2000-10-31 This comprehensive textbook utilizes Green's functions and the equations derived from them to solve real physical problems in solid state theoretical physics Green's functions are used to describe processes in solids and quantum fluids and to address problems in areas such as electron gas polarons electron transport optical response superconductivity and superfluidity The updated third edition features several new chapters on different mean free paths Hubbard model Coulomb blockade and the quantum Hall effect New sections have been added while original sections have been modified to include recent applications. This text is ideal for third or fourth year graduate students and includes numerous study problems and an extensive bibliography

Modern Many-particle Physics Enrico Lipparini,2008 A study of modern many particle physics this text describes homogenous systems such as electron gas in different dimensions the quantum well in an intense magnetic field liquid helium and nuclear matter and addresses finite systems such as metallic clusters quantum dots helium drops and nuclei

Many-particle Physics G.D. Mahan,2000 Problems Solutions Many-Particle Systehb Pradeep Kumar Sharma,2024-12-31 Many particle systems play a fundamental role in physics where we encounter systems of molecules or systems of elementary particles in quantum field theory over a wide range of topics and including more than 400 problems and solutions this book is an ideal resource for students specialising in many particle physics Problems in Quantum Theory of Many-particle Systems Léon Hove,N. M. Hugenholtz,L. P. Howland,1961 Statistical Mechanics and the Physics of Many-particle Model Systems Alexander Leonidovich Kuzemsky,2017 The book is devoted to the study of the correlation effects in many particle systems It presents the advanced methods of quantum statistical mechanics equilibrium and

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Modern Theories of Many-Particle Systems in Condensed Matter Physics Daniel C. Cabra, Andreas

Honecker, Pierre Pujol, 2012-01-05 Condensed matter systems where interactions are strong are inherently difficult to analyze theoretically The situation is particularly interesting in low dimensional systems where quantum fluctuations play a crucial role Here the development of non perturbative methods and the study of integrable field theory have facilitated the understanding of the behavior of many quasi one and two dimensional strongly correlated systems In view of the same rapid development that has taken place for both experimental and numerical techniques as well as the emergence of novel testing grounds such as cold atoms or graphene the current understanding of strongly correlated condensed matter systems differs quite considerably from standard textbook presentations. The present volume of lecture notes aims to fill this gap in the literature by providing a collection of authoritative tutorial reviews covering such topics as quantum phase transitions of antiferromagnets and cuprate based high temperature superconductors electronic liquid crystal phases graphene physics dynamical mean field theory applied to strongly correlated systems transport through quantum dots quantum information perspectives on many body physics frustrated magnetism statistical mechanics of classical and quantum computational complexity and integrable methods in statistical field theory As both graduate level text and authoritative reference on this topic this book will benefit newcomers and more experienced researchers in this field alike **Modern Many-particle Physics** Enrico Lipparini,2008 Frontiers and Borderlines in Many-particle Physics R. A. Broglia, John Robert Schrieffer, Società italiana di fisica, 1988 Subjects at the forefront of many particle research like high temperature superconductivity the quantum Hall effect heavy fermions tunneling of quantal systems with many degrees of freedom Monte Carlo calculations on a lattice etc were presented. The meeting was well timed as it coincided with a very active period of research in the study of superconductivity and thus provided an excellent opportunity to assess some of the major developments that have taken place in the last years

Introduction to Many-particle Physics Henrik Smith, 1997

Approach to Many-Particle Systems Stefan Kehrein,2010-11-22 This self contained introduction addresses the novel flow equation approach for many particle systems and provides an up to date review of the subject The text first discusses the general ideas and concepts of the flow equation method and then in a second part illustrates them with various applications in condensed matter theory The third and last part of the book contains an outlook with current perspectives for future research Problems in Quantum Theory of Many-particle Systems Léon van Hove, Nicolaas Marinus Hugenholtz, L. P. Howland, 1961 Particles, Fields, Quanta Gerhard Ecker, 2019-04-05 This book provides an introduction to the current state of our knowledge about the structure of matter Gerhard Ecker describes the development of modern physics from the beginning of the quantum age to the standard model of particle physics the fundamental theory of interactions of the microcosm The focus lies on the most important discoveries and developments e g of quantum field theory gauge theories and the future of particle physics The author also emphasizes the interplay between theory and experiment which helps us to

explore the deepest mysteries of nature Particles Fields Quanta is written for everyone who enjoys physics It offers high school graduates and students of physics in the first semesters an encouragement to understand physics more deeply Teachers and others interested in physics will find useful insights into the world of particle physics For advanced students the book can serve as a comprehensive preparation for lectures on particle physics and quantum field theory A brief outline of the mathematical structures an index of persons with research focuses and a glossary for quick reference of important terms such as gauge theory spin and symmetry complete the book From the foreword by Michael Springer The great successes and the many open questions this book describes illustrate how immensely complicated nature is and nevertheless how much we already understand of it The author Gerhard Ecker studied theoretical physics with Walter Thirring at the University of Vienna His research focus has been on theoretical particle physics in particular during several long term visits at CERN the European Organisation for Nuclear Research in Geneva In 1986 he was promoted to Professor of Theoretical Physics at the University of Vienna Since 1977 he has given both basic lectures in theoretical physics and advanced courses on different topics in particle physics e g quantum field theory symmetry groups in particle physics and renormalisation in quantum field theory What's Wrong With Microphysicalism? Andreas Huttemann, 2004-08-02 A fresh challenge to microphysicalism the influential contemporary view in philosophy and science that whole objects behave the way they do in virtue of the behaviour of their constituent parts Problems in Quantum Theory of Many-particle Systems ,1961

Quantum Theory of Many-particle Systems A.L. Fetter, J. D. Walecka, 1980

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