Interacting Electrons And Quantum Magnetism

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in the excitement and rapid pace of developments writing pedagogical texts has low priority for most researchers however in transforming my lecture l notes into this book i found a personal benefit the organization of what i understand in a hopefully simple logical sequence very little in this text is my original contribution most of the knowledge was collected from the research literature some was acquired by conversations with colleagues a kind of physics oral tradition passed between disciples of a similar faith for many years diagramatic perturbation theory has been the major theoretical tool for treating interactions in metals semiconductors itiner ant magnets and superconductors it is in essence a weak coupling expan sion about free quasiparticles many experimental discoveries during the last decade including heavy fermions

fractional quantum hall effect high temperature superconductivity and quantum spin chains are not readily accessible from the weak coupling point of view therefore recent years have seen vigorous development of alternative nonperturbative tools for handling strong electron electron interactions i concentrate on two basic paradigms of strongly interacting or con strained quantum systems the hubbard model and the heisenberg model these models are vehicles for fundamental concepts such as effective ha miltonians variational ground states spontaneous symmetry breaking and quantum disorder in addition they are used as test grounds for various nonperturbative approximation schemes that have found applications in diverse areas of theoretical physics

it intends to provide graduate students and researchers a comprehensive survey of electron correlations weak and strong in insulators semiconductors and metals this topic is a central one in condensed matter and beyond that in theoretical physics p 4 of cover

nearly all of this book is taken from an article prepared for a volume of the encyclopedia of physics this article in turn is partly based on dr norbert rosenzweig s translation of an older article on the same subject written by one of us h a b about 25 years ago for the geiger scheel handbuch der physik to the article written last year we have added some addenda and errata these addenda and errata refer back to some of the 79 sections of the main text and contain some misprint corrections additional references and some notes the aim of this book is two fold first to act as a reference work on calcu lations pertaining to hydrogen like and helium like atoms and their comparison with experiments however these calculations involve a vast array of approximation methods mathematical tricks and physical pictures which are also useful in the application of quantum mechanics to other fields in many sections we have given more general discussions of the methods and physical ideas than is necessary for the study of the h and he atom alone we hope that this book will thus at least partly fulfill its second aim namely to be of some use to graduate students who wish to learn applied quantum mechanics a basic knowledge of the principles of quantum mechanics such as given in the early chapters of schiff s or bohm s book is presupposed

modern electronic devices and novel materials often derive their extraordinary properties from the intriguing complex behavior of large numbers of electrons forming what is known as an electron liquid this book provides an in depth introduction to the physics of the interacting electron liquid in a broad variety of systems including metals semiconductors artificial nano structures atoms and molecules one two and three dimensional systems are treated separately and in parallel different phases of the electron liquid from the landau fermi liquid to the wigner crystal from the luttinger liquid to the quantum hall liquid are extensively discussed both static and time dependent density functional theory are presented in detail although the emphasis is on the development of the basic

physical ideas and on a critical discussion of the most useful approximations the formal derivation of the results is highly detailed and based on the simplest most direct methods

major superconducting properties including zero resistance meissner effect sharp phase change flux quantization excitation energy gap josephson effects are covered and microscopically explained using quantum statistical mechanical calculations first treated are the 2d superconductivity and then the quantum hall effects included are exercise type problems for each section readers can grasp the concepts covered in the book by following the worked through problems bibliographies are included in each chapter and a glossary and list of symbols are given in the beginning of the book the book is based on the materials taught by s fujita for several courses in quantum theory of solids advanced topics in modern physics and quantum statistical mechanics

as a continuation of classical condensed matter physics texts this graduate textbook introduces advanced topics of correlated electron systems mesoscopic transport quantum computing optical excitations and topological insulators the book is focusing on an intuitive understanding of the basic concepts of these rather complex subjects

comprehensive graduate text on subject of importance in condensed matter physics electrical engineering and quantum chemistry

the sixth edition of modern physical metallurgy provides a comprehensive overview of the structure of matter the physical properties of materials and their mechanical behaviour and some of the most recent advances in physical metallurgy

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