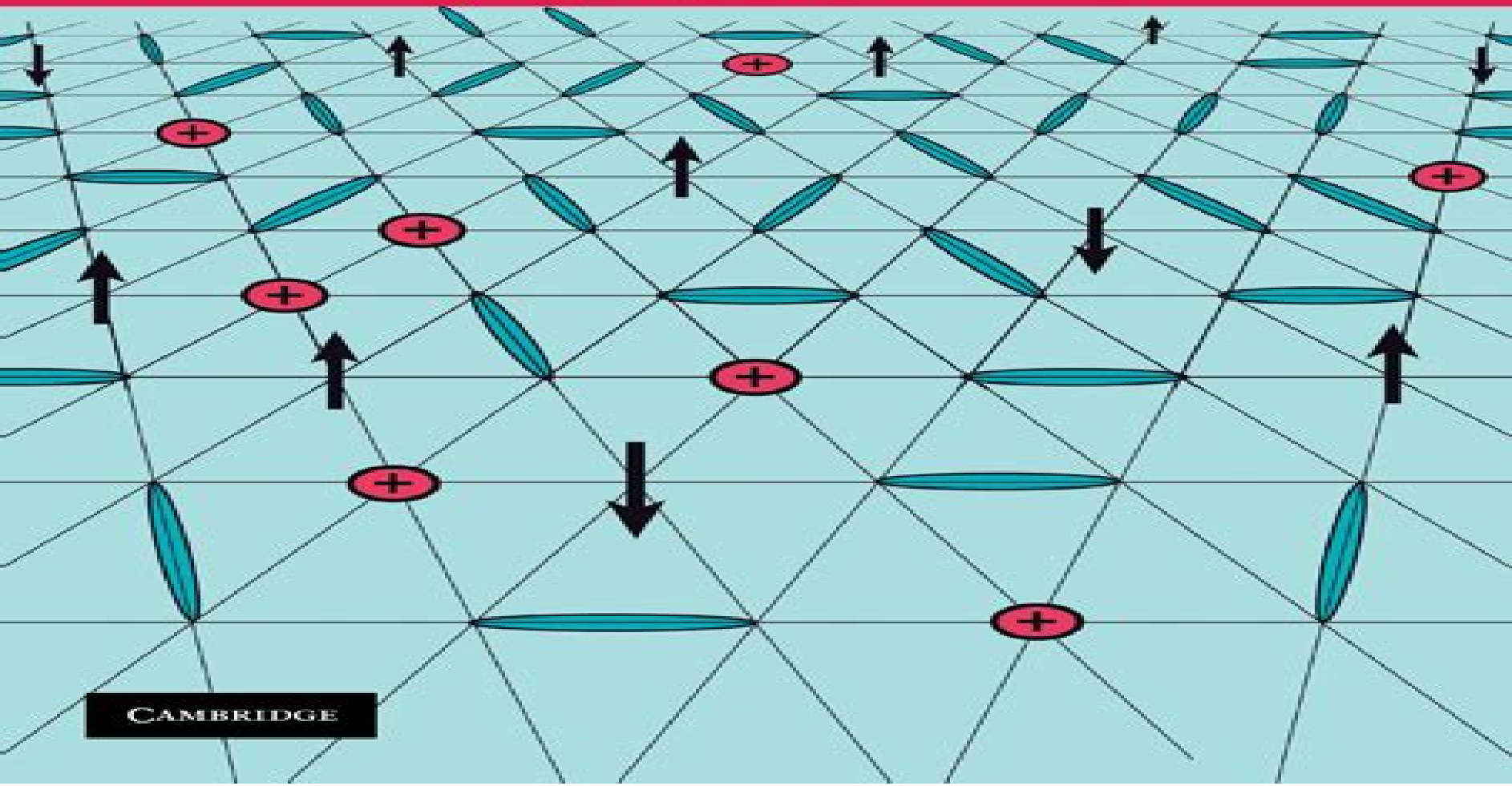


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Order and Elementary Excitations



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Basic Aspects of the Quantum Theory of Solids Daniel I. Khomskii, 2010-09-02 Aimed at graduate students and researchers this book covers the key aspects of the modern quantum theory of solids including up to date ideas such as quantum fluctuations and strong electron correlations It presents in the main concepts of the modern quantum theory of solids as well as a general description of the essential theoretical methods required when working with these systems Diverse topics such as general theory of phase transitions harmonic and anharmonic lattices Bose condensation and superfluidity modern aspects of magnetism including resonating valence bonds electrons in metals and strong electron correlations are treated using unifying concepts of order and elementary excitations The main theoretical tools used to treat these problems are introduced and explained in a simple way and their applications are demonstrated through concrete examples

Quantum Theory of Solids R. E. Peierls, 1996-08-15 This book develops the subject from the basic principles of quantum mechanics The emphasis is on a single statement of the ideas underlying the various approximations that have to be used and care is taken to separate sound arguments from conjecture This book is written for the student of theoretical physics who wants to work in the field of solids and for the experimenter with a knowledge of quantum theory who is not content to take other people's arguments for granted The treatment covers the electron theory of metals as well as the dynamics of crystals including the author's work on the thermal conductivity of crystals which has been previously published in English

Quantum Theory of Solids Rudolf E. Peierls, 1956

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A Modern Course In The Quantum Theory Of Solids Fuxiang

Han,2012-09-14 This book contains advanced subjects in solid state physics with emphasis on the theoretical exposition of various physical phenomena in solids using quantum theory hence entitled A modern course in the quantum theory of solids The use of the adjective modern in the title is to reflect the fact that some of the new developments in condensed matter physics have been included in the book The new developments contained in the book are mainly in experimental methods inelastic neutron scattering and photoemission spectroscopy in magnetic properties of solids the itinerant magnetism the superexchange the Hubbard model and giant and colossal magnetoresistance and in optical properties of solids Raman scattering Besides the new developments the Green's function method used in many body physics and the strong coupling theory of superconductivity are also expounded in great detail *Quantum Theory of the Solid State* A Joseph

Callaway,2012-12-02 Quantum Theory of the Solid State Part A describes the concepts and methods and introduces some of the central problems of the quantum theory of solids This work is intended to be a single intellectual unit although for reasons of convenience it has been divided into two parts Part A contains much of the formalism required for the theoretical study of solids Part B is oriented toward more specific problems The present volume includes phenomenological treatments of lattice vibrations and magnetic order a discussion of symmetry groups and a description of the properties of one electron wave functions and the principal techniques for calculating energy levels Fairly lengthy bibliographies have been included at the end of each chapter to assist readers in making their way through the more specialized periodical literature This book should be suitable as a textbook for students who have completed a one year course in quantum mechanics and have some familiarity with the experimental facts of solid state physics It should also be useful as a reference work **Quantum**

Theory of the Solid State Joseph Callaway,2013-10-22 This new edition presents a comprehensive up to date survey of the concepts and methods in contemporary condensed matter physics emphasizing topics that can be treated by quantum mechanical methods The book features tutorial discussions of a number of current research topics Also included are updated treatments of topics that have developed significantly within the past several years such as superconductivity magnetic impurities in metals methods for electronic structure calculations magnetic ordering in insulators and metals and linear response theory Advanced level graduate students and practicing condensed matter physicists will use the second edition of Quantum Theory of the Solid State as an important source of information n Renormalization group theory n Integer and fractional quantum Hall effect n Transport in mesoscopic systems and n Numerical methods in many body theory

Intermediate Quantum Theory of Crystalline Solids Alexander O. E. Animalu,1977 Quantum Theory of the Solid State Lev Kantorovich,2004-05-31 Quantum Physics of the Solid State an Introduction Draft foreword 26 09 03 If only this book had been available when I was starting out in science It would have saved me countless hours of struggle in trying to apply the general ideas of the standard solid state text books to solve real problems The fact is that most of the texts stop at the point where the real difficulties begin The great merit of this book is that it describes in an honest and detailed way what one

really has to do in order to understand the multifarious properties of solids in terms of the fundamental physical theory of quantum mechanics University students of the physical sciences are taught about the fundamental theories and know that quantum mechanics together with relativity is our basis for understanding the physical world But the practical difficulties of using quantum mechanics to do anything useful are usually not very well explained The truth is that the application of quantum theory to achieve our present detailed understanding of solids has required the development of a large array of mathematical techniques This is closely analogous to the challenge faced long ago by theoretical astronomers in trying to apply Newton's equations of motion to the heavens they too had to develop a battery of theoretical and computational techniques to do calculations that could be compared with observation

Concepts In Solids: Lectures On The Theory Of Solids Philip W Anderson, 1997-11-26 These lecture notes constitute a course on a number of central concepts of solid state physics classification of solids band theory the developments in one electron band theory in the presence of perturbation effective Hamiltonian theory elementary excitations and the various types of collective elementary excitation excitons spin waves and phonons the Fermi liquid ferromagnetic spin waves antiferromagnetic spin waves and the theory of broken symmetry The book can be used in conjunction with a survey course in solid state physics or as the basis of a first graduate level course It can be read by anyone who has had basic grounding in quantum mechanics

Basic Aspects of the Quantum Theory of Solids Daniel Khomskii, 2014-05-14 Presents the main concepts and essential theoretical methods of the modern quantum theory of solids for graduate students and researchers

An Introduction to the Electron Theory of Solids John Stringer, 2013-10-22 An Introduction to the Electron Theory of Solids introduces the reader to the electron theory of solids Topics covered range from the breakdown of classical theory to atomic spectra and the old quantum theory as well as the uncertainty principle of Heisenberg and the foundations of quantum mechanics Some problems in wave mechanics and a wave mechanical treatment of the simple harmonic oscillator and the hydrogen atom are also presented Comprised of 12 chapters this book begins with an introduction to Isaac Newton's theory of classical mechanics and how the scientists after him discounted his ideas The discussion then turns to the spectrum of atomic hydrogen and the old quantum theory Heisenberg's uncertainty principle and the consequences of wave particle duality the foundations of quantum mechanics and assemblies of atoms Atoms in motion and statistical mechanics are also considered along with simple models of metals and the band theory of solids The final chapter presents some results of band theory with particular reference to thermal ionization of impurity atoms and conductivity of metals This monograph is primarily intended for students of any discipline

Many-Body Theory of Solids John C. Inkson, 2012-12-06 here exists a gap in the present literature on quantum mechanics and its application to solids It has been difficult to find an introductory textbook which could take a student from the elementary quantum mechanical ideas of the single particle Schrodinger equations through the formalism and new physical concepts of many body theory to the level where the student would be equipped to read the scientific literature and

specialized books on specific topics The present book which I believe fills this gap grew out of two courses which I have given for a number of years at the University of Cambridge Advanced Quantum Mechanics covering the quantization of fields representations and creation and annihilation operators and Many Body Theory on the application of quantum field theory to solids The first course is a final year undergraduate physics course while the second is a joint first and fourth year undergraduate math year postgraduate physics course ematics course In an American context this would closely correspond to a graduate course at the masters level In writing this book I have tried to stress the physical aspects of the mathematics preferring where possible to introduce a technique by using a simple illustrative example rather than develop a purely formal treatment In order to do this I have assumed a certain familiarity with solid state physics on the level of a normal undergraduate course but the book should also be useful to those without such a background

Quantum Theory of Polymers as Solids Janos J. Ladik, 2012-12-06 The goal of this monograph is to summarize the different quantum mechanical methods developed in the last 20 years to treat the electronic structure of polymers Owing to the nature of the problem these methods consist of a mixture of quantum chemical and solid state physical techniques The theory described in Part I treats besides the Hartree Fock problem the electron correlation and it has also been developed for disordered polymeric systems Though for obvious reasons the book could not include all the existing calculations each new method described is illustrated by a few applications with a discussion of the numerical results obtained Far more details see the Introduction to Part I The second part contains the theoretical calculation of different properties of polymers based on the methods systematically introduced in the first part The properties calculated include the electronic and vibrational spectra of polymers and the computation of their transport magnetic and mechanical properties In cases where reliable experimental data are available the theoretical results are compared with them

Quantum Theory of Real Materials James R. Chelikowsky, Steven G. Louie, 1996-02-29 A Festschrift in honor of Professor Marvin L Cohen This volume is a Festschrift in honor of Professor Marvin L Cohen The articles contributed by leading researchers in condensed matter physics highlight recent advances in the use of quantum theory to explain and predict properties of real materials The invention of quantum mechanics in the 1920 s provided detailed descriptions of the electronic structure of atoms However a similar understanding of solids has been achieved only in the past 30 years owing to the complex electron ion and electron electron interactions in these systems Professor Cohen is a central figure in this achievement His development of the pseudopotential and total energy methods provided an alternate route using computers for the exploration of solids and new materials even when they have not yet been synthesized Professor Cohen s contributions to materials theory have been both fundamental and encompassing The corpus of his work consists of over 500 papers and a textbook His band structures for semiconductors are used worldwide by researchers in solid state physics and chemistry and by device engineers Professor Cohen s own use of his theories has resulted in the determination of the electronic structure optical properties structural and vibrational properties and

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