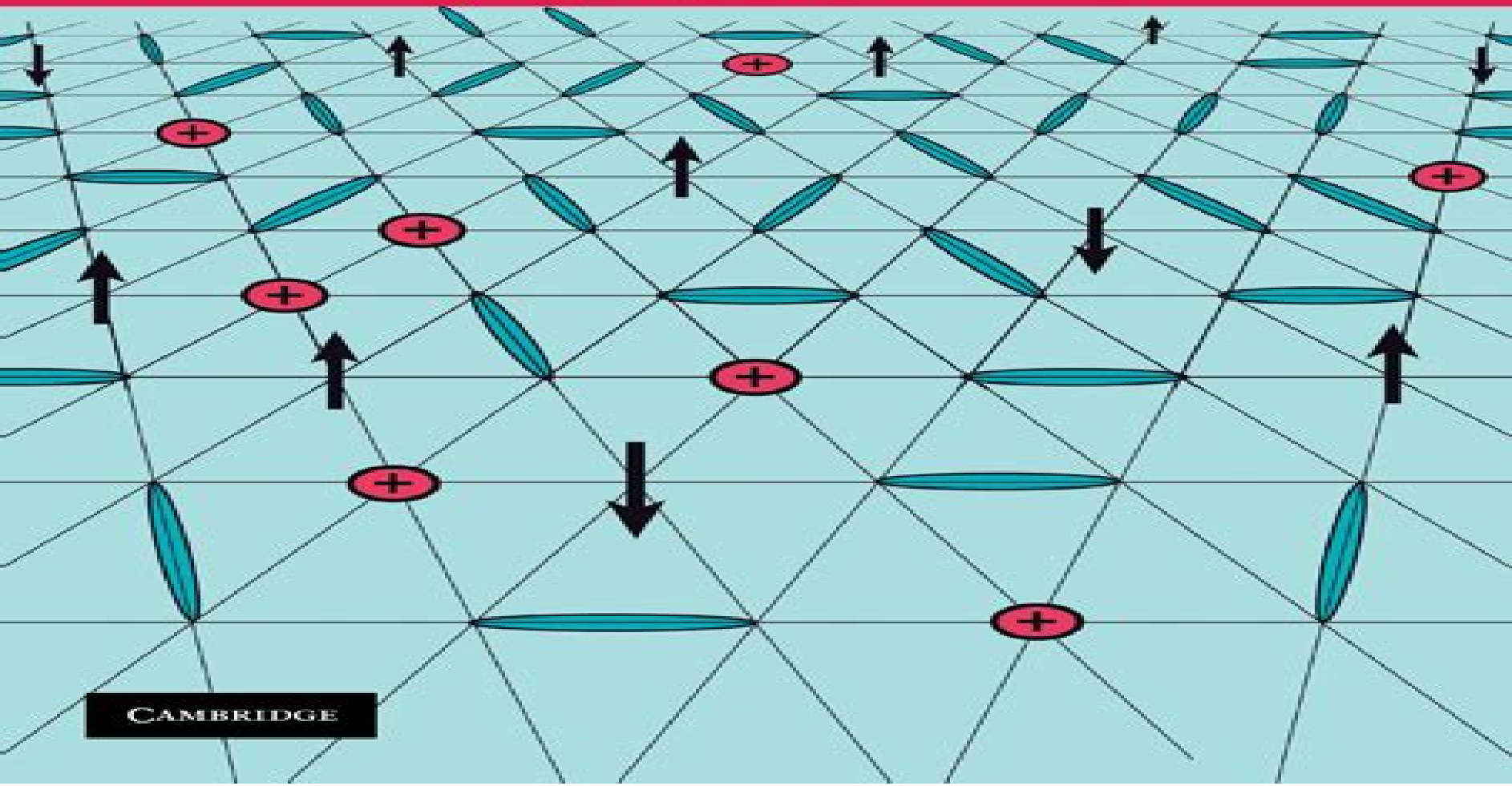


Daniel I. Khomskii

# Basic Aspects of the Quantum Theory of Solids

Order and Elementary Excitations



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# Quantum Theory Of Solids

**Rudolf Ernst Peierls**



## Quantum Theory Of Solids:

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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

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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  
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Khomskii, 2014-05-14 Presents the main concepts and essential theoretical methods of the modern quantum theory of solids for graduate students and researchers

*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

**Intermediate Quantum Theory of Crystalline Solids** Alexander O. E. Animalu, 1977 **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 mathematics postgraduate physics 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

**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 [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

**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 superconducting properties of numerous condensed matter systems including semiconductors metals surfaces interfaces defects in solids clusters and novel materials such as the fullerides and nanotubes **The**

**Physics of Solids** Richard Turton, Richard John Turton, 2000 I like the way the book starts with bonds between atoms before the obligatory chapter on crystalline solids followed by an excellent treatment of mechanical properties The standard topics of solid state physics are then presented starting with electronic properties There is a splendid final chapter on polymers The style is confident authoritative and up to date Richard Feynman in evaluating his own attempt to teach quantum mechanics early in a physics course reckoned he had failed Has Richard Turton succeeded I think he has Andrew Briggs professor of materials University of Oxford The Times Higher 24 November 2000 Physics and Engineering This book is aimed at first and second year undergraduates taking a course in solid state physics It is suitable for physics or engineering students It is aimed at a substantially lower level than the majority of solid state physics texts in particular it does not assume any prior knowledge of quantum theory The text is largely non mathematical but questions are integrated into the text to encourage readers to tackle the problem solving aspects of the subject Worked examples and a complete set of detailed solutions are included

**Quantum Theory of Polymers as Solids** Janos J. Ladik, 1988      **Quantum Theory of the Solid State** Lev Kantorovich, 2014-09-01

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