

A.A. Maradudin
G.F. Nardelli *Editors*

Elementary Excitations in Solids

The Cortina Lectures, July 1966,
and selected lectures from the
Conference on Localized Excitations,
Milan, July 25–26, 1966

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Daniela Niemeyer



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Elementary Excitations in Solids, Molecules, and Atom J. T. Devreese, A. B. Kunz, T. C. Collins, 2013-11-11 The Advanced Study Institute on Elementary Excitations in Solids Molecules and Atoms was held at the University of Antwerp U I A from June 18th till June 30th 1973 The Institute was sponsored by NATO Co sponsors were Agfa Gevaert N V Mortsel Belgium Bell Telephone Mfg Co Antwerp Belgium I B M Belgium N V Brussels Belgium the National Science Foundation Washington D C U S A and the University of Antwerp U I A A total of 120 lecturers and participants attended the Institute Over the last few years substantial progress has been made in the description of the elementary excitations of the electronic and vibrational systems and their interactions Parallel with this the experimentalists have obtained outstanding results partly as a result of availability of coherent light sources from the far infrared through the visible region and partly because of the availability of synchrotron radiation sources in the soft X ray region The results of today will lead to further progress over the next years It was the purpose of this NATO Advanced Study Institute to present a state of the art namely a survey of experiment and theory

Elementary Excitations In Solids David Pines, 2018-03-05 This text continues to fill the need to communicate the present view of a solid as a system of interacting particles which under suitable circumstances behaves like a collection of nearly independent elementary excitations In addition to introducing basic concepts the author frequently refers to experimental data Usually both the basic theory and the applications discussed deal with the behavior of simple metals rather than the complicated metals such as the transition metals and the rare earths Problems have been included for most of the chapters

Elementary Excitations in Solids, Molecules and Atoms, 1974 *Electron Correlations in Molecules and Solids* Peter Fulde, 2012-12-06 *Electron Correlations in Molecules and Solids* bridges the gap between quantum chemistry and solid state theory In the first half of the text new concepts are developed for treating many body and correlation effects combining standard quantum chemical methods with projection techniques Greens function methods and Monte Carlo techniques The second half deals with applications of the theory to molecules semiconductors transition metals heavy fermion systems and the new high Tc superconducting materials

Solid State Physics, 1970-04-01 *Solid State Physics*

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synchrotron radiation sources in the soft X ray region The results of today will lead to further progress over the next years It was the purpose of this NATO Advanced Study Institute to present a state of the art namely a survey of experiment and theory

Introduction to Solid-State Theory Otfried Madelung, 2012-12-06 Introduction to Solid State Theory is a textbook for graduate students of physics and materials science It also provides the theoretical background needed by physicists doing research in pure solid state physics and its applications to electrical engineering The fundamentals of solid state theory are based on a description by delocalized and localized states and within the concept of delocalized states by elementary excitations The development of solid state theory within the last ten years has shown that by a systematic introduction of these concepts large parts of the theory can be described in a unified way This form of description gives a pictorial formulation of many elementary processes in solids which facilitates their understanding **Sixth International**

Conference on Noise in Physical Systems Paul Herman Ernst Meijer, R. D. Mountain, R. J. Soulen, 1981 **Solid State Physics** László Mihály, Michael C Martin, 2009-02-24 The ideal companion in condensed matter physics now in new and revised edition Solving homework problems is the single most effective way for students to familiarize themselves with the language and details of solid state physics Testing problem solving ability is the best means at the professor's disposal for measuring student progress at critical points in the learning process This book enables any instructor to supplement end of chapter textbook assignments with a large number of challenging and engaging practice problems and discover a host of new ideas for creating exam questions Designed to be used in tandem with any of the excellent textbooks on this subject Solid State Physics Problems and Solutions provides a self study approach through which advanced undergraduate and first year graduate students can develop and test their skills while acclimating themselves to the demands of the discipline Each problem has been chosen for its ability to illustrate key concepts properties and systems knowledge of which is crucial in developing a complete understanding of the subject including Crystals diffraction and reciprocal lattices Phonon dispersion and electronic band structure Density of states Transport magnetic and optical properties Interacting electron systems Magnetism Nanoscale Physics **Green's Functions in Quantum Physics** E.N. Economou, 2013-04-17 *Elementary Excitations in Solids, Lectures on Phonons, Electrons, and* David Pines, 1964 *Solid-State Physics* Harald Ibach, Hans Lüth, 2012-12-06 In recent decades solid state physics has seen many dramatic new developments and has become one of the largest independent branches of physics It has simultaneously expanded into many new areas playing a vital role in fields that were once the domain of the engineering and chemical sciences A consequence of this explosive development is that no single university lecturer can today be expected to have a detailed knowledge of all aspects of this vast subject likewise it is impossible to conceive of a course that could offer students a comprehensive understanding of the entire discipline and its many applications In view of this situation it is particularly valuable to have a textbook that gives a concise account of the essential elements of the physics of solids In this book the fundamental aspects of solid state physics are presented

according to the scheme Chemical bonding structure lattice dynamics and electronic properties We believe that this sequence is the optimum choice for tutorial purposes It enables the more difficult concepts to be introduced at a point where a basic understanding of fundamental ideas has already been achieved through the study of simple models and examples In addition to this carefully structured exposition of classical solid state theory based on the periodic solid and the one electron approximation the book also includes comprehensive descriptions of the most active areas in modern research Magnetism superconductivity and semiconductor physics

Mathematical Theory of Elasticity of Quasicrystals and Its Applications Tianyou Fan, 2011-05-25 This interdisciplinary work covering the continuum mechanics of novel materials condensed matter physics and partial differential equations discusses the mathematical theory of elasticity of quasicrystals a new condensed matter and its applications by setting up new partial differential equations of higher order and their solutions under complicated boundary value and initial value conditions The new theories developed here dramatically simplify the solving of complicated elasticity equation systems Large numbers of complicated equations involving elasticity are reduced to a single or a few partial differential equations of higher order Systematical and direct methods of mathematical physics and complex variable functions are developed to solve the equations under appropriate boundary value and initial value conditions and many exact analytical solutions are constructed The dynamic and non linear analysis of deformation and fracture of quasicrystals in this volume presents an innovative approach It gives a clear cut strict and systematic mathematical overview of the field Comprehensive and detailed mathematical derivations guide readers through the work By combining mathematical calculations and experimental data theoretical analysis and practical applications and analytical and numerical studies readers will gain systematic comprehensive and in depth knowledge on continuum mechanics condensed matter physics and applied mathematics

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Electronic Structure and Magneto-Optical Properties of Solids Victor Antonov, Bruce Harmon, Alexander Yaresko, 2006-05-05 The aim of this book is to review recent achievements in the theoretical investigations

of the electronic structure optical magneto optical MO and x ray magnetic circular dichroism XMCD properties of compounds and Multilayered structures Chapter 1 of this book is of an introductory character and presents the theoretical foundations of the band theory of solids such as the density functional theory for ground state properties of solids including local density approximation LDA It also presents some modifications to the LDA such as gradient correction self interaction correction LDA U method orbital polarization correction GW approximation and dynamical mean field theory The description of the magneto optical effects and linear response theory are also presented The book describes the MO properties for a number of 3d materials such as elemental ferromagnetic metals Fe Co and Ni and paramagnetic metals in external magnetic fields Pd and Pt some important 3d compounds such as XPt_3 X V Cr Mn Fe and Co Heusler alloys chromium spinel chalcogenides MnB and strongly correlated magnetite Fe_3O_4 It also describes the recent achievements in both the experimental and theoretical investigations of the electronic structure optical and MO properties of transition metal multilayered structures MLS The book presents also the MO properties of f band ferromagnetic materials Tm Nd Sm Ce and La monochalcogenides some important

Y Computational Methods in Solid State Physics V V Nemoshkalenko, N.V. Antonov, 1999-02-19 The combination of theoretical physics methods numerical mathematics and computers has given rise to a new field of physics known as computational physics The purpose of this monograph is to present the various methods of computational physics in particular the methods of band theory The first chapter of the book provides an introduction to the field and presents the theoretical foundations of band theory In the second and third chapters the authors describe both traditional and more modern methods of band theory and include practical recommendations for their use Methods which are discussed include APW augmented plane wave Green's function method LMTO linear method of MT orbitals LKKR linear Korringa Kohn and Rostocker method LAPW linear augmented plane wave ASW augmented spherical waves and LASO linear method of augmented Slater orbitals Great attention is paid to the practical aspects of these theories and the book is structured in such a way as to enable the reader to use any method in practice without reference to other sources **Quantum Systems** Y. S.

Kim, Y. S. (University of Maryland Kim (USA)), 1997 The purpose of the workshop is to discuss both local and global geometrical and topological effects in quantum systems in the context of the new methods of investigation The main topics are non perturbative methods in quantum theory geometrical and topological effects in quantum dynamics group theoretical and algebraic methods in the theory of quantum systems quantum systems in external fields and curved spaces new results from subnuclear physics to cosmology *Elementary excitations in solids: Lectures on phonons, electrons, and plasmons*

David Pines, 1964 **Encyclopedic Dictionary of Condensed Matter Physics** Charles P. Poole Jr., 2004-03-11 This volume is a translation and revision of the Original Russian version by Baryakhtar It covers all of the main fields involved in Condensed Matter Physics such as crystallography electrical properties fluids magnetism material properties optics radiation semiconductors and superconductivity as well as highlights of important related subjects such as quantum mechanics

spectroscopy and statistical mechanics Both theoretical and experimental aspects of condensed matter are covered in detail The entries range from very short paragraphs on topics where definitions are needed such as Bloch's law clathrate compound donor domain Kondo lattice mean free path and Wigner crystal to long discussions of more general or more comprehensive topics such as antiferromagnetism crystal lattice dynamics dislocations Fermi surface Josephson effect luminescence magnetic films phase transitions and semiconductors The main theoretical approaches to Condensed Matter Physics are explained There are several long tables on for example Bravais lattices characteristics of magnetic materials units of physical quantities symmetry groups The properties of the main elements of the periodic table are given Numerous entries not covered by standard Solid State Physics texts o Self similarity o The adiabatic approximation o Bistability Emphasis on materials not discussed in standard texts o Activated carbon o Austenite o Bainite o Calamitics o Carbine o Delat phase o Discotics o Gunier Preston zones o Heterodesmic structures o Heusler Alloys o Stress and strain deviators o Vicalloy Each entry is fully cross referenced to help tracking down all aspects of a topic under investigation Highly illustrated to clarify many concepts

Concepts in Thermal Physics Stephen Blundell, Katherine M. Blundell, 2006 This modern introduction to thermal physics contains a step by step presentation of the key concepts The text is copiously illustrated and each chapter contains several worked examples

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