

Springer Series in
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M.L. Cohen
J.R. Chelikowsky

Electronic Structure and Optical Properties of Semiconductors



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Electronic Structure And Optical Properties Of Semiconductors:

Electronic Structure and Optical Properties of Semiconductors Marvin L. Cohen, James R. Chelikowsky, 2012-12-06
We began planning and writing this book in the late 1970s at the suggestion of Manuel Cardona and Helmut Lotsch. We also received considerable encouragement and stimulation from colleagues. Some said there was a need for instructional material in this area while others emphasized the utility of a research text. We tried to strike a compromise. The figures, tables, and references are included to enable researchers to obtain quickly essential information in this area of semiconductor research. For instructors and students we attempt to cover some basic ideas about electronic structure and semiconductor physics with applications to real rather than model solids. We wish to thank our colleagues and collaborators whose research results and ideas are presented here. Special thanks are due to Jim Phillips who influenced us both during our formative years and afterwards. We are grateful to Sari Yamagishi for her patience and skill with the typing and production of the manuscript. Finally we acknowledge the great patience of Helmut Lotsch and Manuel Cardona. Berkeley CA. M. L. Cohen Minneapolis MN. J. R. Chelikowsky March 1988. VII Contents 1 Introduction 1 2 Theoretical Concepts and Methods 4 2.1 The One Electron Model and Band Structure 7 2.2 Properties of Enk 11 3 Pseudopotentials 16 3.1 The Empirical Pseudopotential Method 20 3.2 Self Consistent and Ab Initio Pseudopotentials 25 4 Response Functions and Density of States 30 4.1 Charge Density and Bonding 38
Electronic Structure And Optical Properties Of Semiconductors M.L. Cohen, *Electronic Structure and Optical Properties of Semiconductor Heterostructures* D. Birkedal, Technical University of Denmark. Microelectronics Centre, 1991

Conceptual Foundations of Materials, 2006-09-20 The goal of this Volume Conceptual Foundations of Materials A standard model for ground and excited state properties is to present the fundamentals of electronic structure theory that are central to the understanding and prediction of materials phenomena and properties. The emphasis is on foundations and concepts. The Sections are designed to offer a broad and comprehensive perspective of the field. They cover the basic aspects of modern electronic structure approaches and highlight their applications to the structural ground state vibrational dynamic and thermodynamic etc and electronic spectroscopic dielectric magnetic transport etc properties of real materials including solids clusters liquids and nanostructure materials. This framework also forms a basis for studies of emergent properties arising from low energy electron correlations and interactions such as the quantum Hall effects superconductivity and other cooperative phenomena. Although some of the basics and models for solids were developed in the early part of the last century by figures such as Bloch Pauli Fermi and Slater the field of electronic structure theory went through a phenomenal growth during the past two decades leading to new concepts understandings and predictive capabilities for determining the ground and excited state properties of real complex materials from first principles. For example theory can now be used to predict the existence and properties of materials not previously realized in nature or in the laboratory. Computer experiments can be performed to examine the behavior of individual atoms in a particular process to analyze the importance of different

mechanisms or just to see what happens if one varies the interactions and parameters in the simulation. Also with ab initio calculations one can determine from first principles important interaction parameters which are needed in model studies of complex processes or highly correlated systems. Each time a new material or a novel form of a material is discovered, electronic structure theory inevitably plays a fundamental role in unraveling its properties. Provides the foundations of the field of condensed matter physics. An excellent supplementary text for classes on condensed matter physics, solid state physics. Volume covers current work at the forefront. Presentations are accessible to nonspecialists with focus on underlying fundamentals.

Electronic Structure and Optical Properties of III-V and II-VI Semiconductor Superlattices Neil Fraser Johnson, 1989

Fundamentals of the Physics of Solids Jenő Sólyom, 2008-11-06

The reader is holding the second volume of a three volume textbook on solid state physics. This book is the outgrowth of the courses I have taught for many years at Eötvös University Budapest for undergraduate and graduate students under the titles Solid State Physics and Modern Solid State Physics. The main motivation for the publication of my lecture notes as a book was that none of the truly numerous textbooks covered all those areas that I felt should be included in a multi semester course. Especially if the course strives to present solid state physics in a unified structure and aims at discussing not only classic chapters of the subject matter but also in more or less detail problems that are of great interest for today's researcher as well. Besides the book presents a much larger material than what can be covered in a two or three semester course. In the first part of the first volume the analysis of crystal symmetries and structure goes into details that certainly cannot be included in a usual course on solid state physics. The same applies among others to the discussion of the methods used in the determination of band structure, the properties of Fermi liquids and non Fermi liquids and the theory of unconventional superconductors in the present and third volumes. These parts can be assigned as supplementary reading for interested students or can be discussed in advanced courses.

Magnetism and the Electronic Structure of Crystals Vladimir A. Gubanov, Alexandr I. Liechtenstein, Andrei V. Postnikov, 2012-12-06

The quantum theory of magnetism is a well developed part of contemporary solid state physics. The basic concepts of this theory can be used to describe such important effects as ferromagnetic ordering of localized magnetic moments in crystals and ferromagnetism of metals produced by essentially delocalized electrons as well as various types of mutual orientation of atomic magnetic moments in solids possessing different crystal lattices and compositions. In recent years the spin fluctuational approach has been developed which can overcome some contradictions between localized and itinerant models in the quantum mechanics of magnetic crystals. These are only some of the principal achievements of quantum magnetic theory. Almost all of the known magnetic properties of solids can be qualitatively explained on the basis of its concepts. Further developments should open up the possibility of reliable quantitative description of magnetic properties of solids. Unfortunately such calculations based on model concepts appear to be very complicated and quite often not definite enough. The rather small number of parameters of qualitative models are usually not able to take into account the very

different types of magnetic interactions that appear in crystals Further development of magnetic theory requires quantitative information on electronic wave function in the crystal considered This can be proved by electronic band structure and cluster calculations In many cases the latter can be a starting point for quantitative calculations of parameters used in magnetic theory

Electronic Structure and Properties of Semiconductors Wolfgang Schröter, 1991 *Fundamentals of Semiconductors* Peter YU, Manuel Cardona, 2013-03-09 We have so far received many comments and feedback on our book from all quarters including students instructors and of course many friends We are most grateful to them not only for their compliments but also for their valuable criticism We also received many requests for an instructor manual and solutions to the problems at the end of each chapter We realize that semiconductor physics has continued to evolve since the publication of this book and there is a need to continue to update its content To keep our readers informed of the latest developments we have created a Web Page for this book Its address as of the writing of this preface is <http://pauline.berkeley.edu/textbook> At this point this Web Page displays the following information 1 Content outline and an excerpt of the book 2 Reviews of the book in various magazines and journals 3 Errata to both first and second printing most have been corrected in the second edition as of this date 4 Solutions to selected problems 5 Additional supplementary problems

Fundamentals of Semiconductor Peter YU, Manuel Cardona, 2013-11-11 *Fundamentals of Semiconductors* attempts to fill the gap between a general solid state physics textbook and research articles by providing detailed explanations of the electronic vibrational transport and optical properties of semiconductors The approach is physical and intuitive rather than formal and pedantic Theories are presented to explain experimental results This textbook has been written with both students and researchers in mind Its emphasis is on understanding the physical properties of Si and similar tetrahedrally coordinated semiconductors The explanations are based on physical insights Each chapter is enriched by an extensive collection of tables of material parameters figures and problems Many of these problems lead the student by the hand to arrive at the results

Semiconductor Physics Karl W. Böer, Udo W. Pohl, 2023-02-02 This handbook gives a complete and detailed survey of the field of semiconductor physics It addresses every fundamental principle the most important research topics and results as well as conventional and emerging new areas of application Additionally it provides all essential reference material on crystalline bulk low dimensional and amorphous semiconductors including valuable data on their optical transport and dynamic properties This updated and extended second edition includes essential coverage of rapidly advancing areas in semiconductor physics such as topological insulators quantum optics magnetic nanostructures and spintronic systems Richly illustrated and authored by a duo of internationally acclaimed experts in solar energy and semiconductor physics this handbook delivers in depth treatment of the field reflecting a combined experience spanning several decades as both researchers and educators Offering a unique perspective on many issues *Semiconductor Physics* is an invaluable reference for physicists materials scientists and engineers throughout academia and industry

Comprehensive Semiconductor

Science and Technology ,2024-11-28 Semiconductors are at the heart of modern living Almost everything we do be it work travel communication or entertainment all depend on some feature of semiconductor technology Comprehensive Semiconductor Science and Technology Second Edition Three Volume Set captures the breadth of this important field and presents it in a single source to the large audience who study make and use semiconductor devices Written and edited by a truly international team of experts and newly updated to capture key advancements in the field this work delivers an objective yet cohesive review of the semiconductor world The work is divided into three sections fully updated and expanded from the first edition The first section is concerned with the fundamental physics of semiconductors showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low dimensional structure and further to a nanometer size Throughout this section there is an emphasis on the full understanding of the underlying physics especially quantum phenomena The second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of high purity or doped bulk and epitaxial materials with low defect density and well controlled electrical and optical properties The third section is devoted to design fabrication and assessment of discrete and integrated semiconductor devices It will cover the entire spectrum of devices we see all around us for telecommunications computing automation displays illumination and consumer electronics Provides a comprehensive global picture of the semiconductor world Written and Edited by an international team of experts Compiles the most important semiconductor knowledge into one comprehensive resource Moves from fundamentals and theory to more advanced knowledge such as applications allowing readers to gain a deeper understanding of the field *Electronic Structure and Physical Properties of Solids* Hugues Dreyse,2008-01-11 A very comprehensive book enabling the reader to understand the basic formalisms used in electronic structure determination and particularly the Muffin Tin Orbitals methods The latest developments are presented providing a very detailed description of the Full Potential schemes This book will provide a real state of the art since almost all of the contributions on formalism have not been and will not be published elsewhere This book will become a standard reference volume Moreover applications in very active fields of today s research on magnetism are presented A wide spectrum of such questions is covered by this book For instance the paper on interlayer exchange coupling should become a classic since there has been fantastic experimental activity for 10 years and this can be considered to be the final theoretical answer to this question This work has never been presented in such a complete form

First Principles Study of Electronic Structure and Optical Properties of Semiconductor Surfaces Unified Approach for Exact Calculation of Coupling Coefficients of Quantum Angular Momenta Liqiang Wei,1999 Scientific and Technical Aerospace Reports ,1995 *Investigation of Electronic Structure and Optical Properties of Organic Molecular Semiconductor Materials by X-ray Spectroscopies* Nikolaos Peltekis,2009 Full-Potential Electronic Structure Method John M. Wills,Mebarek Alouani,Per Andersson,Anna Delin,Olle Eriksson,Oleksiy Grechneyev,2010-12-01 This is a book describing

electronic structure theory and application within the framework of a methodology implemented in the computer code RSPt. In 1986 when the code that was to become RSPt was developed enough to be useful it was one of the first full potential all electron relativistic implementations of DFT density functional theory. While RSPt was documented passively in many publications describing the results of its application it was many years before a publication explicitly describing aspects of the method appeared. In the meantime several excellent all electron full potential methods had been developed, published and become available. So why a book about RSPt now? The code that became RSPt was initially developed as a personal research tool rather than a collaborative effort or as a product. As such it required some knowledge of its inner workings to use and as it was meant to be minimally visible the code required experience to be used effectively. These tributes inhibited but did not prevent the spread of RSPt as a research tool. While applicable across the periodic table the method is particularly useful in describing a wide range of materials including heavier elements and compounds and its flexibility provides targeted accuracy and a convenient and accurate framework for implementing and assessing the effect of new models.

II-VI Semiconductor Materials and their Applications Maria C. Tamargo, 2002-04-12. II-VI Semiconductor Materials and Their Applications deals with II-VI compound semiconductors and the status of the two areas of current optoelectronics applications: blue-green emitters and IR detectors. Specifically the growth, characterization, materials and device issues for these two applications are described. Emphasis is placed on the wide bandgap emitters where much progress has occurred recently. The book also presents new directions that have potential future applications in optoelectronics for II-VI materials. In particular it discusses the status of dilute magnetic semiconductors for magneto-optical and electromagnetic devices, nonlinear optical properties, photorefractive effects and new materials and physics phenomena such as self-organized low-dimensional structures. II-VI Semiconductor Materials and Their Applications is a valuable reference book for researchers in the field as well as a textbook for materials science and applied physics courses. *OAR Quarterly Index of Current Research Results* United States. Air Force. Office of Aerospace Research, 1967.

Relativistic Electronic Structure Theory - Fundamentals, 2002-11-22. The first volume of this two-part series is concerned with the fundamental aspects of relativistic quantum theory, outlining the enormous progress made in the last twenty years in this field. The aim was to create a book such that researchers who become interested in this exciting new field find it useful as a textbook and do not have to rely on a rather large number of specialized papers published in this area. No title is currently available that deals with new developments in relativistic quantum electronic structure theory. Interesting and relevant to graduate students in chemistry and physics as well as to all researchers in the field of quantum chemistry. As treatment of heavy elements becomes more important there will be a constant demand for this title.

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