

Electronic Structure and the Properties of Solids

Harrison, Walter A.

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Electronic Structure And The Properties Of Solids

Harrison

Walter A Harrison



Electronic Structure And The Properties Of Solids Harrison:

Electronic Structure and the Properties of Solids Walter A. Harrison, 1989-07-01 Should be widely read by practicing physicists chemists and materials scientists Philosophical Magazine In this comprehensive and innovative text Professor Harrison Stanford University offers a basic understanding of the electronic structure of covalent and ionic solids simple metals transition metals and their compounds The book illuminates the relationships of the electronic structures of these materials and shows how to calculate dielectric conducting and bonding properties for each Also described are various methods of approximating electronic structure providing insight and even quantitative results from the comparisons Dr Harrison has also included an especially helpful Solid State Table of the Elements that provides all the parameters needed to estimate almost any property of any solid with a hand held calculator using the techniques developed in the book Designed for graduate or advanced undergraduate students who have completed an undergraduate course in quantum mechanics or atomic and modern physics the text treats the relation between structure and properties comprehensively for all solids rather than for small classes of solids This makes it an indispensable reference for all who make use of approximative methods for electronic structure engineering semiconductor development and materials science The problems at the ends of the chapters are an important aspect of the book They clearly show that the calculations for systems and properties of genuine and current interest are actually quite elementary Prefaces Problems Tables Appendixes Solid State Table of the Elements Bibliography Author and Subject Indexes Will doubtless exert a lasting influence on the solid state physics literature Physics Today

Electronic Structure and the Properties of Solids Walter Ashley Harrison, 1989 **Elementary Electronic Structure** Walter A Harrison, 1999-06-01 This is a revised edition of the 1999 text on the electronic structure and properties of solids similar in spirit to the well known 1980 text *Electronic Structure and the Properties of Solids* Current revisions include an added chapter on glasses and rewritten sections on spin orbit coupling magnetic alloys and the actinides The text covers covalent semiconductors ionic insulators simple metals and transition metal and f shell metal systems It focuses on the most important aspects of each system making what approximations are necessary in order to proceed analytically and obtain formulae for the properties Such back of the envelope formulae which display the dependence of any property on the parameters of the system are characteristic of Harrison's approach to electronic structure as is his simple presentation and his providing all of the needed parameters In spite of the diversity of systems and materials the approach is systematic and coherent combining the tight binding or atomic picture with the pseudopotential or free electron picture This provides parameters the empty core radii as well as the covalent energies and conceptual bases for estimating the various properties of all of these systems Extensive tables of parameters and properties are included The book is written as a text with problems at the end of each chapter and others can readily be generated by asking for estimates of different properties or different materials than treated in the text In fact the ease of generating interesting problems reflects on the extraordinary utility and

simplicity of the methods introduced. Developments since the 1980 publication have made the theory simpler than before, much more accurate, and allowed much wider application.

Structure and Bonding in Crystalline Materials Gregory S. Rohrer, 2001-07-19 One of the motivating questions in materials research today is how can elements be combined to produce a solid with specified properties. This book is intended to acquaint the reader with established principles of crystallography and cohesive forces that are needed to address the fundamental relationship between the composition, structure, and bonding. Starting with an introduction to periodic trends, the book discusses crystal structures and the various primary and secondary bonding types and finishes by describing a number of models for predicting phase stability and structure. Containing a large number of worked examples, exercises, and detailed descriptions of numerous crystal structures, this book is primarily intended as an advanced undergraduate or graduate level textbook for students of materials science. It will also be useful to scientists and engineers who work with solid materials.

Electronic Properties of Semiconductor Interfaces Winfried Mönch, 2004-01-14 Almost all semiconductor devices contain metal/semiconductor, semiconductor/semiconductor, or semiconductor/insulator interfaces, and their electronic properties determine the device characteristics. This is the first monograph that treats the electronic properties of all different types of semiconductor interfaces. Using the continuum of interface-induced gap states (IFIGS) as the unifying concept, Mönch explains the band structure lineup at all types of semiconductor interfaces. These intrinsic FIGS are the wave function tails of electron states which overlap a semiconductor band gap exactly at the interface so they originate from the quantum mechanical tunnel effect. He shows that a more chemical view relates the FIGS to the partial ionic character of the covalent interface bonds and that the charge transfer across the interface may be modeled by generalizing Pauling's electronegativity concept. The FIGS and electronegativity theory is used to quantitatively explain the barrier heights and band offsets of well-characterized Schottky contacts and semiconductor heterostructures respectively.

Diode Lasers D. Sands, 2004-10-30 The compact size, reliability, and low cost of diode lasers lead to applications throughout modern technology, most importantly in modern optical telecommunication systems. This book presents a comprehensive introduction to the principles and operation of diode lasers. It begins with a review of semiconductor physics and laser fundamentals before describing the most basic homojunction laser. Later chapters describe more advanced laser types and their applications, including the most recently developed and exotic laser designs. The author's intuitive style, coupled with an extensive set of worked examples and sample problems, makes this an outstanding introduction to the subject.

[Instructor's Guide and Solutions Manual for Electronic Structure and the Properties of Solids](#) Walter Ashley Harrison, 1980

Glassy Metals: Magnetic, Chemical and Structural Properties Ryusuke Hasegawa, 2018-01-18 Covers structure of metallic glass alloys, theory of magnetism in noncrystalline solids, electronic structure of metallic glasses, magnetism in transition metal base amorphous alloys, application of metallic glasses in low frequency magnetic devices, magnetic material properties, and applications of metallic glasses in electronic devices, rare earth

transition metal base alloys corrosion properties of amorphous alloys *Electronic Structure and Properties of Semiconductors* Wolfgang Schröter,1991 Solid State Theory Ulrich Rössler,2009-08-29 Solid State Theory An Introduction is a textbook for graduate students of physics and material sciences Whilst covering the traditional topics of older textbooks it also takes up new developments in theoretical concepts and materials that are connected with such breakthroughs as the quantum Hall effects the high T_c superconductors and the low dimensional systems realized in solids Thus besides providing the fundamental concepts to describe the physics of the electrons and ions comprising the solid including their interactions the book casts a bridge to the experimental facts and gives the reader an excellent insight into current research fields A compilation of problems makes the book especially valuable to both students and teachers **The Structure and Properties of Matter** Takeo Matsubara,1982-11 This book originally appeared in Japanese in 1973 in the Iwanami Series of Fundamental Physics supervised by Professor Hideki Yukawa and published by Iwanami Shoten A revised second edition was published in 1978 The task we set ourselves was to grasp the properties of matter as a whole in a unified scheme and to present a general view of matter incorporating the results of modern physics To achieve this goal we have tried to explore the laws which describe the structure of macroscopic matter namely to ask in what kinds of physical states matter can in principle exist and why Thus using the methods of statistical physics and quantum mechanics we have tried to systematically describe the properties of matter from a unified point of view Of course we do not believe that such a standpoint can give an exhaustive description of condensed matter One of the important viewpoints which obviously is omitted in such a unified approach is the historical one which follows the development of physics in the course of time

Solid State Physics Joginder Singh Galsin,2019-02-23 Solid State Physics An Introduction to Theory presents an intermediate quantum approach to the properties of solids Through this lens the text explores different properties such as lattice electronic elastic thermal dielectric magnetic semiconducting superconducting and optical and transport properties along with the structure of crystalline solids The work presents the general theory for most of the properties of crystalline solids along with the results for one two and three dimensional solids in particular cases It also includes a brief description of emerging topics such as the quantum hall effect and high superconductivity Building from fundamental principles and requiring only a minimal mathematical background the book includes illustrative images and solved problems in all chapters to support student understanding Provides an introduction to recent topics such as the quantum hall effect high superconductivity and nanomaterials Utilizes the Dirac notation to highlight the physics contained in the mathematics in an appropriate and succinct manner Includes many figures and solved problems throughout all chapters to provide a deeper understanding for students Offers topics of particular interest to engineering students such as elasticity in solids dislocations polymers point defects and nanomaterials World Scientific Reference Of Amorphous Materials, The: Structure, Properties, Modeling And Main Applications (In 3 Volumes) ,2020-12-28 Amorphous solids including glassy and non

crystalline solids are ubiquitous since the vast majority of solids naturally occurring in our world are amorphous. Although the field is diverse and complex, this three volume set covers the vast majority of the important concepts needed to understand these materials and their principal practical applications. One volume discusses the most important subset of amorphous insulators, namely oxide glasses; the other two volumes discuss the most important subsets of amorphous semiconductors, namely tetrahedrally coordinated amorphous semiconductors and amorphous and glassy chalcogenides. Together, these three volumes provide a comprehensive set of theoretical concepts and practical information needed to become conversant in the field of amorphous materials. They are suitable for advanced graduate students, postdoctoral research associates, and researchers wishing to change fields or sub fields. The topics covered in these three volumes include:

1. concepts for understanding the structures of amorphous materials
2. techniques to characterize the structural, electronic, and optical properties of amorphous materials
3. the roles of defects in affecting the electronic and optical properties of amorphous materials
4. the concepts for understanding practical devices and other applications of amorphous materials.

Applications discussed in these volumes include transistors, solar cells, displays, bolometers, fibers, non volatile memories, vidicons, photoresists, and optical disks.

Elementary Electronic Structure Walter A. Harrison, 2004

The Structures of Binary Compounds J. Hafner, 1989

Up to date compilation of the experimental data on the structures of binary compounds by Villars and colleagues. Coloured structure maps which order the compounds into their respective structural domains and present for the first time the local coordination polyhedra for the 150 most frequently occurring structure types. Pedagogically very helpful and useful in the search for new materials with a required crystal structure. Crystal coordination formulas, a flexible notation for the interpretation of solid state structures by chemist Bill Jensen. Recent important advances in understanding the quantum mechanical origin of structural stability presented in two clearly written chapters by leading experts in the field: Hafner, Majewski, and Vogl. *The Structures of Binary Compounds* presents not only the most up to date compilation of the experimental data on the structures of binary compounds but also the recent important theoretical advances in understanding the quantum mechanical origin of structural stability. In addition to this volume, a large wall chart displaying the structure maps for the AB, AB₂, and AB₃ stoichiometries together with the corresponding coordination polyhedra has been published. The first half of the book details the successful ordering of the known experimental data in two or three dimensional coloured structure maps; the 150 most frequently occurring structure types being characterized for the first time by their local coordination polyhedra. The second half of the book details the success of first principle theoretical calculations within the Local Density Functional Approximation in predicting the correct ground state structures of binary semiconductors, insulators, and metals. The book concludes with a chapter on the cohesion and structure of solids from the more localized tight binding point of view.

Eighteenth Annual Technical Report: July 1978 to June 1979 Stanford University. Center for Materials Research, 1979

Twenty-eight Annual Report on Materials Research at Stanford

University, January 1, 1988-December 31, 1988 Stanford University. Center for Materials Research, 1989 *Essentials of Semiconductor Physics* W. Tom Wenckebach, 1999-11-05 Provides a modern introduction to semiconductor physics presenting the basic information necessary to understand semiconductors along with some of the latest theories and developments Based on the author's undergraduate course this book bridges the gap between basic subjects such as quantum mechanics and Maxwell's equations and the fundamental processes determining the behaviour of semiconductors Following a quantum mechanics approach this text is predominantly aimed at scientists rather than engineers and forms the basis for the understanding of modern mesoscopic physics in semiconductors and quantum devices like resonant tunneling diodes Rather than attempting to comprehensively cover all aspects of semiconductor physics this text aims to cover the most important and interesting aspects of this subject to scientists Starting with the development of semiconductor physics from basic quantum mechanics the text moves on to cover band structure and effective mass theory before covering electron phonon coupling and charge transport It concludes with a chapter on optical transitions Students will need some knowledge of quantum mechanics and solid state although this is covered to some extent in the book FEATURES Concise introduction to the basics of semiconductor physics Bridges the gap between fundamental subjects such as quantum mechanics and Maxwell's equations and the processes determining the behaviour of semiconductors Describes semiconductor theory from a full quantum mechanical approach An accessible introduction avoiding reliance on group theory CONTENTS Preface Notation Conventions Introduction Electrons nuclei and Hamiltonians Band Structure The k p Approximation Effective Mass Theory The Crystal Lattice Electron phonon Coupling Charge Transport Optical Transitions Band Electrons in an Optical Field Appendix A The Hydrogen Atom Appendix B The Harmonic Oscillator Appendix C Perturbation Theory Appendix D Tensors in Cubic Crystals Appendix E The Classical Limit Appendix F Some Fourier Transforms Appendix G Exercises Bibliography

Encyclopedia of Applied Physics George L. Trigg, Eduardo S. Vera, Walter Greulich, 1991 Counter This cumulative index is essential for all those who need to consult the Encyclopedia of Applied Physics for specific information which is not treated in a separate entry It provides full access to this indispensable reference work **Twenty-fourth Annual Report on**

Materials Research at Stanford University, July 1984 - April 1985 Stanford University. Center for Materials Research, 1985

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