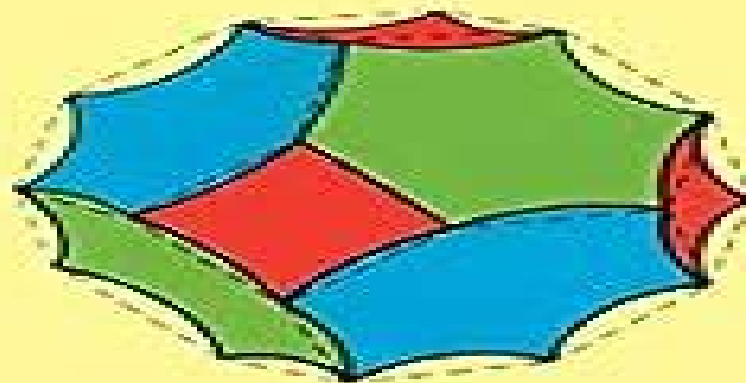


ELECTRONIC STRUCTURE AND THE PROPERTIES OF SOLIDS

The Physics of the Chemical Bond



Walter A. Harrison

Electronic Structure And The Properties Of Solids The Physics Of The Chemical Bond

Bruce H. Mahan



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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

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 Instructor's Guide and Solutions Manual for Electronic Structure and the Properties of Solids Walter Ashley Harrison, 1980

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 make this an outstanding introduction to the subject

The Materials Science of Semiconductors Angus Rockett, 2007-11-20 This book describes semiconductors from a materials science perspective rather than from condensed matter physics or electrical engineering viewpoints It includes discussion of current approaches to organic materials for electronic devices It further describes the fundamental aspects of thin film nucleation and growth and the most common physical and chemical vapor deposition techniques Examples of the application of the concepts in each chapter to specific problems or situations are included along with recommended readings and homework problems

Structure and Bonding in Condensed Matter Carol S. Nichols, 1995-05-18

Physical Structure, 1996-12-06 The primary goal of this book is to summarize the current level of accumulated knowledge about the physical structure of solid surfaces with emphasis on well defined surfaces at the gas solid and vacuum solid interfaces The intention is not only to provide a standard reference for practitioners but also to provide a good starting point for scientists who are just entering the field The presentation in most of the chapters therefore assumes that the typical reader will have a good undergraduate background in chemistry physics or materials science At the same time coverage is comprehensive and at a high technical level with emphasis on fundamental physical principles This first volume in a new series is appropriately devoted to the physical structure of surfaces knowledge of which will be essential for a complete understanding of electronic properties and dynamical processes the topics of the next two volumes in the series The volume is divided into four parts Part I describes the equilibrium properties of surfaces with emphasis on clean surfaces of bulk materials Part II provides an introduction to some of the primary experimental methods that are used to determine surface crystal structures Part III gives an overview of the vast topic of the structure of adsorbed layers The concluding Part IV deals with the topics of defects in surface structures and phase transitions

Quantum Chemistry of Solids Robert A. Evarestov, 2007-08-16 Quantum Chemistry of Solids delivers a comprehensive account of the main features and possibilities of LCAO methods for the first principles calculations of electronic structure of periodic systems The first part describes the basic theory underlying the LCAO methods applied to periodic systems and the use of wave function based Hartree Fock density based DFT and hybrid hamiltonians The translation and site symmetry consideration is included to establish connection between k space solid state physics and real space quantum chemistry methods in the framework of cyclic model of an infinite crystal The inclusion of electron correlation effects for periodic systems is considered on the basis of localized crystalline orbitals The possibilities of LCAO methods for chemical bonding analysis in periodic systems are discussed The second part deals with the applications of LCAO methods for calculations of bulk crystal properties including magnetic ordering and crystal structure optimization The discussion of the results of some supercell calculations of point defects in non metallic solids and of the crystalline surfaces electronic structure illustrates the efficiency of LCAO method for solids

Chemical Bonding Richard

Dronskowski,2023-10-04 Modern DFT simulations of solids and molecules are typically based on the mighty plane wave pseudopotential combination Despite being numerically efficient it does not allow for chemical conclusions unless the electronic structure is unitarily transformed into atomic orbitals This primer for chemists and as well for physicists and engineers shows how to simply extract the chemistry and hence truly understand a plethora of real world materials The goal of this humorous primer entertaining to read is to truly serve but not repel the reader Recent in person and also virtual summer schools in Europe and Asia have demonstrated the need for such a primer also to be used for self training

Handbook of Nanophysics Klaus D. Sattler,2010-09-17 Providing the framework for breakthroughs in nanotechnology this landmark publication is the first comprehensive reference to cover both fundamental and applied physics at the nanoscale After discussing the theoretical principles and measurements of nanoscale systems the organization of the set follows the historical development of nanoscience Each peer reviewed chapter presents a didactic treatment of the physics underlying the nanoscale materials applications and detailed experimental results State of the art scientific content is enriched with fundamental equations and illustrations many in color

Quantum Theory of Solids Eoin O'Reilly,2017-12-21 Quantum Theory of Solids presents a concisely structured tour of the theory relating to chemical bonding and its application to the three most significant topics in solid state physics semiconductors magnetism and superconductivity topics that have seen major advances in recent years This is a unique treatment that develops the concepts of quantum theory for the solid state from the basics through to an advanced level encompassing additional quantum mechanics techniques such as the variational method and perturbation theory Written at the senior undergraduate masters level it provides an exceptional grounding in the subject

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 and 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

Photocatalysis: Fundamental Processes and Applications Mehrorang Ghaedi, 2021-03-19 Photocatalysis Fundamental Processes and Applications Volume 32 in the Interface Science and Technology Series discusses the fundamental aspects of photocatalysis and its process and applications to the decontamination of wastewater hydrogen production via water splitting and photo reduction of carbon dioxide to hydrocarbon The book discusses the fundamental aspects of all applications together with their proper mechanisms thus providing essential information for deep research in the area of clean environment and green energy production Provides background on the fundamental and experimental processes of photocatalysis Covers photocatalysis and its impact on creating a clean environment and energy sources Applies photocatalysis to the decontamination of wastewater hydrogen production via water splitting and photo reduction of carbon dioxide to hydrocarbon Edited by a world leading researcher in interface science *Point Defects in Semiconductors I* M. Lannoo, 2012-12-06 From its early beginning before the war the field of semiconductors has developed as a classical example where the standard approximations of band theory can be safely used to study its interesting electronic properties Thus in these covalent crystals the electronic structure is only weakly coupled with the atomic vibrations one electron Bloch functions can be used and their energy bands can be accurately computed in the neighborhood of the energy gap between the valence and conduction bands n and p doping can be obtained by introducing substitutional impurities which only introduce shallow donors and acceptors and can be studied by an effective mass weak scattering description Yet even at the beginning it was known from luminescence studies that these simple concepts failed to describe the various deep levels introduced near the middle of the energy gap by strong localized imperfections These imperfections not only include some interstitial and many substitutional atoms but also broken bonds associated with surfaces and interfaces dislocation cores and vacancies i.e. vacant lattice sites in the crystal In all these cases the electronic structure can be strongly correlated with the details of the atomic structure and the atomic motion Because these deep levels are strongly localised electron-electron correlations can also play a significant role and any weak perturbation treatment from the perfect crystal structure obviously fails Thus approximate strong coupling techniques must often be used in line with a more chemical description of bonding

Epitaxy Marian A. Herman, W. Richter, Helmut Sitter, 2013-03-09 Epitaxy provides readers with a comprehensive treatment of the modern models and modifications of epitaxy together with the relevant experimental and technological framework This advanced textbook describes all important aspects of the epitaxial growth processes of solid films on crystalline substrates including a section on heteroepitaxy It covers and discusses in details the most important epitaxial growth techniques which are currently widely used in basic research as well as in manufacturing processes of devices namely solid phase epitaxy liquid phase epitaxy vapor phase epitaxy including metal organic vapor phase epitaxy and molecular beam epitaxy Epitaxy's coverage of science and technology thin film is intended to fill the need for a

comprehensive reference and text examining the variety of problems related to the physical foundations and technical implementation of epitaxial crystallization Comprehensive Semiconductor Science and Technology ,2024-11-28

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Mahan,2006-03-17 This straightforward presentation explores chemical applications of thermodynamics as well as physical interpretations The author considers the first and second laws of thermodynamics in turn after which he proceeds to applications of thermodynamic principles emphasizing the interpretation of entropy changes and chemical behavior in terms of qualitative molecular properties 1964 edition Optical Techniques for Solid-State Materials Characterization Rohit P.

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