

# ELECTRONIC PROPERTIES OF CRYSTALLINE SOLIDS

*AN INTRODUCTION TO FUNDAMENTALS*

RICHARD H. BUBE

# Electronic Properties Of Crystalline Solids An Introduction To Fundam

**C Cleary**



## **Electronic Properties Of Crystalline Solids An Introduction To Fundam:**

**Electronic Properties of Crystalline Solids** Richard H. Bube, 1977      **Electronic Properties of Crystalline Solids** Richard Bube, 2012-12-02 Electronic Properties of Crystalline Solids An Introduction to Fundamentals discusses courses in the electronic properties of solids taught in the Department of Materials Science and Engineering at Stanford University The book starts with a brief review of classical wave mechanics discussing concept of waves and their role in the interactions of electrons phonons and photons The book covers the free electron model for metals and the origin derivation and properties of allowed and forbidden energy bands for electrons in crystalline materials It also examines transport phenomena and optical effects in crystalline materials including electrical conductivity scattering phenomena thermal conductivity Hall and thermoelectric effects magnetoresistance optical absorption photoconductivity and other photoelectronic effects in both ideal and real materials This book is intended for upper level undergraduates in a science major or for first or second year graduate students with an interest in the scientific basis for our understanding of properties of materials      A Theory of Surface and Interface Electronic Properties of Crystalline Solids Joseph Thomas Schick, 1988      **Indian Science Abstracts**, 1975      **Electronic Properties and Structure of Amorphous Solids** P. H. Gaskell, 1979      Electronic Properties and Structures of Amorphous Solids Nevill Francis Mott, P. H. Gaskell, John Douglas Mackenzie, 1979      Theory of Electronic Properties of Solids D. L. Dexter, R. S. Knox, ROCHESTER UNIV N Y DEPT OF PHYSICS AND ASTRONOMY., 1970 In the field of electronic properties of normal metals there has been the work of Gaspari and Shyu and in superconducting metals that of Guertin et al and Bennemann et al Knox and co workers have made contributions to the theory of the optical and electronic properties of crystalline and amorphous organic matter Atomic and band structure calculations have been made by Reilly Knox Miyakawa et al Formal optical and lattice dynamical calculations have been carried out by Dexter Benin and Miyakawa Work on excitons has also been performed by these authors Dexter Knox and Miyakawa Several papers by Dexter and Miyakawa have appeared on the theory of electronic bubbles in cryogenic liquids and Dexter and Miyakawa et al have worked on problems involving the electron phonon interaction in optical transitions Bhargava and Dexter have calculated the optical properties of substitutional impurities in solid argon and neon and Dexter Knox and Miyakawa have worked on several problems involving energy transfer in condensed matter Author      **Electronic Properties of Materials** Rolf E. Hummel, 1993      **The Electronic Structure of Some Crystalline Solids** M. de V. Roberts, King's College London. Department of Physics, 1955      *Electronic Properties of Molecular Solids* Norman H. Nachtrieb, CHICAGO UNIV ILL DEPT OF CHEMISTRY., 1970 The effects of hydrostatic gas pressure on the electrical conductance of crystalline charge transfer complexes of the quinhydrone type were investigated Procedures for the synthesis purification and growth of single crystals of a variety of complexes from solution were developed Time dependent transient currents are observed in high resistance complexes attributable to the flow of charges to local traps Large transient increases in conductance with pressure are

observed Reversible increases in conductance with pressure are small but reproducible Author *Electronic Materials* H.L. Kwok, 2010-01-14 Volume is indexed by Thomson Reuters BCI WoS The electronic properties of solids have become of increasing importance in the age of information technology The study of solids and materials while having originated from the disciplines of physics and chemistry has evolved independently over the past few decades The classical treatment of solid state physics which emphasized classifications theories and fundamental physical principles is no longer able to bridge the gap between materials advances and applications In particular the more recent developments in device physics and technology have not necessarily been driven by new concepts in physics or new materials but rather by the ability of engineers to control crystal structures and properties better via advances in crystal growth and patterning techniques In many cases new applications simply arise from the adaption of conventional ideas to interdisciplinary areas One example is that of recent advances which rely heavily upon the availability of the sub micron technology developed by the semiconductor industry Another example is the emergence of nanotechnology

### **Crystalline Semiconducting Materials and Devices**

Paul N. Butcher, Norman H. March, Mario P. Tosi, 2013-11-11 This book is concerned primarily with the fundamental theory underlying the physical and chemical properties of crystalline semiconductors After basic introductory material on chemical bonding electronic band structure phonons and electronic transport some emphasis is placed on surface and interfacial properties as well as effects of doping with a variety of impurities Against this background the use of such materials in device physics is examined and aspects of materials preparation are discussed briefly The level of presentation is suitable for postgraduate students and research workers in solid state physics and chemistry materials science and electrical and electronic engineering Finally it may be of interest to note that this book originated in a College organized at the International Centre for Theoretical Physics Trieste in Spring 1984 P N Butcher N H March M P Tosi vii Contents 1 Bonds and Bands in Semiconductors 1 E Mooser 1 1 Introduction 1 2 The Semiconducting Bond 2 1 3 Bond Approach Versus Band Model 6 1 4 Construction of the Localized X by Linear Combination of n Atomic Orbitals 13 1 5 The General Octet Rule 23 1 6 The Aufbau Principle of the Crystal Structure of Semiconductors 26 1 7 A Building Principle for Polyanionic Structures 29 I H Structural Sorting 39 1 9 Chemical Bonds and Semiconductivity in Transition Element Compounds 46 1 10 Conclusion 53 References 54 2 Electronic Band Structure 55 G Grosso 2 1 Two Different Strategies for Band Structure Calculations 55 2 2 The Tight Binding Method

### **Electronic Properties and Structure of Amorphous Solids**

John Douglas Mackenzie, Sir Nevill Francis Mott, P. H. Gaskell, 1979 **Electronic Properties of Organic Conductors** Takehiko Mori, 2018-06-07 This book provides an easily understandable introduction to solid state physics for chemists and engineers Band theory is introduced as an extension of molecular orbital theory and its application to organic materials is described Phenomena beyond band theory are treated in relation to magnetism and electron correlation which are explained in terms of the valence bond theory and the Coulomb and exchange integrals After the fundamental concepts of magnetism are outlined the relation

of correlation and superconductivity is described without assuming a knowledge of advanced physics Molecular design of organic conductors and semiconductors is discussed from the standpoint of oxidation reduction potentials and after a brief survey of organic superconductors various applications of organic semiconductor devices are described This book will be useful not only for researchers but also for graduate students as a valuable reference

**Electronic Properties of Amorphous Semiconductors** Gino Angelo Petrillo,1973      *Nucleoside-based Solids as Wide Bandgap Semiconductors* Arrigo Calzolari,2002      *Electronic Properties of Materials* Harvey Thayne Johnson,1971      **Electronic Structure and Magneto-Optical Properties of Solids** Victor Antonov,Bruce Harmon,Alexander Yaresko,2014-03-14      *Electronic Properties of Chiral Two-dimensional Materials* Christopher Lawrence Charles Triola (Ph. D.),2015      **The Electronic Properties of Granular and Amorphous Materials** Janet Caroline Dawson,1993

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