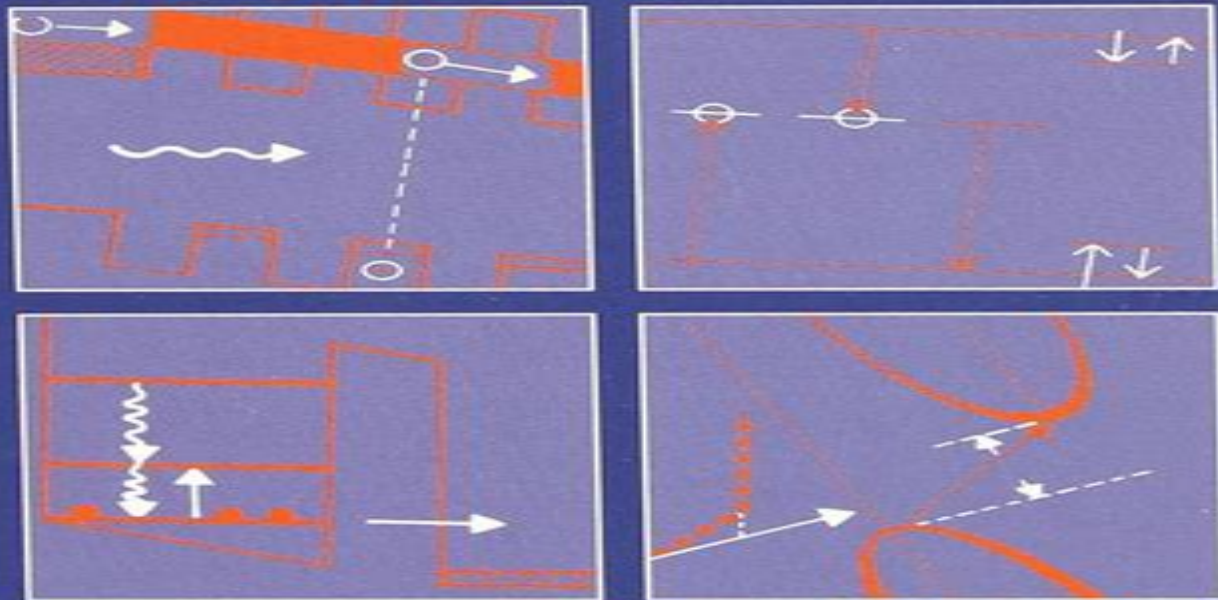


Photoelectronic Properties of Semiconductors



RICHARD H. BUBE

Photoelectronic Properties Of Semiconductors

JA Banks



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Könenkamp, 2003-07-01 This volume discusses the photoelectric behavior of three semiconducting thin film materials hydrogenated amorphous silicon a Si H nano porous titanium dioxide and the fullerene C60 Despite the fundamental structural differences between these materials their electronic properties are at least on the phenomenological level surprisingly similar since all three materials have rather low carrier mobilities In the last decade a Si H has conquered large market segments in photo voltaics fiat panel displays and detector applications It is surely the most advanced and best understood of the three materials Nano porous TiO2 is used successfully in a novel solar cell featuring an organic dye absorber This product is now at the brink of commercialization while electronic applications for C60 still appear to be in the exploration phase At this stage it appears that some of the insight and many of the experimental techniques used in the development of a Si H may prove useful in the on going and yet very basic study of TiO2 and C60 thin films This idea is the guideline to this book Without being comprehensive on the part of amorphous silicon it attempts to outline basic characterization schemes for the nano porous and fullerene materials and to evaluate their potential for applications with respect to a reference which is given by a Si H

Study of Photoelectronic Properties of Semiconductors by the Advanced Method of Transient Microwave Photoconductivity (AMTMP). ,1998 **Optical Properties of Semiconductors** N. G. Basov, 2012-12-06 *Semiconductor Material and Device Characterization* Dieter K.

Schroder, 2006-02-10 This Third Edition updates a landmark text with the latest findings The Third Edition of the internationally lauded *Semiconductor Material and Device Characterization* brings the text fully up to date with the latest developments in the field and includes new pedagogical tools to assist readers Not only does the Third Edition set forth all

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Semiconductor Nanowires J Arbiol,Q Xiong,2015-03-31 Semiconductor nanowires promise to provide the building blocks for a new generation of nanoscale electronic and optoelectronic devices **Semiconductor Nanowires Materials Synthesis Characterization and Applications** covers advanced materials for nanowires the growth and synthesis of semiconductor nanowires including methods such as solution growth MOVPE MBE and self organization Characterizing the properties of semiconductor nanowires is covered in chapters describing studies using TEM SPM and Raman scattering Applications of semiconductor nanowires are discussed in chapters focusing on solar cells battery electrodes sensors optoelectronics and biology Explores a selection of advanced materials for semiconductor nanowires Outlines key techniques for the property assessment and characterization of semiconductor nanowires Covers a broad range of applications across a number of fields

Scientific and Technical Aerospace Reports ,1989 Photoelectrochemistry and Photovoltaics of Layered Semiconductors A. Aruchamy,2013-03-13 This volume aims at bringing together the results of extensive research done during the last fifteen years on the interfacial photoelectronic properties of the inorganic layered semiconducting materials mainly in relation to solar energy conversion Significant contributions have been made both on the fundamental aspects of interface characteristics and on the suitability of the layered materials in photoelectrochemical semiconductor electrolyte junctions and in solid state photovoltaic Schottky and p n junctions cells New insights into the physical and chemical characteristics of the contact surfaces have been gained and many new applications of these materials

have been revealed In particular the basal plane surface of the layered materials shows low chemical reactivity and specific electronic behaviour with respect to isotropic solids In electrochemical systems the inert nature of these surfaces characterized by saturated chemical bonds has been recognized from studies on charge transfer reactions and catalysis In addition studies on the role of the d band electronic transitions and the dynamics of the photogenerated charge carriers in the relative stability of the photoelectrodes of the transition metal dichalcogenides have deepened the understanding of the interfacial photoreactions Transition metal layered compounds are also recognized as ideal model compounds for the studies Involving surfaces photoreactions adsorption phenomena and catalysis scanning tunneling microscopy and spectroscopy and epitaxial growth of thin films Recently quantum size effects have been investigated in layered semiconductor colloids

SERI Photovoltaic Advanced Research and Development Bibliography, 1982-1985 ,1986 NASA Thesaurus ,1998 Contains the authorized subject terms by which the documents in the NASA STI Database are indexed and retrieved *Solar Energy Update* ,1981 Semiconductors and Semimetals ,1983-11-16 Semiconductors and Semimetals Optical Properties and Applications of Semiconductors Inamuddin,Mohd Imran Ahamed,Rajender Boddula,Tariq Altalhi,2022-07-18 Semiconductors with optical characteristics have found widespread use in evolving semiconductor photovoltaics where optical features are important The industrialization of semiconductors and their allied applications have paved the way for optical measurement techniques to be used in new ways Due to their unique properties semiconductors are key components in the daily employed technologies in healthcare computing communications green energy and a range of other uses This book examines the fundamental optical properties and applications of semiconductors It summarizes the information as well as the optical characteristics and applicability of semiconductors through an in depth review of the literature Accomplished experts in the field share their knowledge and examine new developments FEATURES Comprehensive coverage of all types of optical applications using semiconductors Explores relevant composite materials and devices for each application Addresses the optical properties of crystalline and amorphous semiconductors Describes new developments in the field and future potential applications Optical Properties and Applications of Semiconductors is a comprehensive reference and an invaluable resource for engineers scientists academics and industry R D teams working in applied physics

Heterojunctions and Metal Semiconductor Junctions A.G. Milnes,2012-12-02 Heterojunctions and Metal Semiconductor Junctions discusses semiconductor semiconductor heterojunctions and metal semiconductor heterojunctions which are of significant practical importance today and also of considerable scientific interest with worthwhile problems still to be explored and understood Many classes of heterojunctions are believed to have new and valuable applications Although some aspects of heterojunction behavior remain areas for continued scientific and technological study the main outlines of the subject are clear This book comprises nine chapters and begins with an introduction to semiconductor heterojunctions Succeeding chapters then discuss semiconductor p n heterojunction models and diode behavior heterojunction transistors

isotype n n p p heterojunctions optical properties of heterojunctions and heterojunction lasers metal semiconductor barriers metal semiconductor junction behavior high yield photoemissive cathodes and fabrication of heterojunctions This book will be of interest to practitioners in the fields of applied physics

Functional materials with Charge Transfer Properties and Their Application in Photoelectric Devices Meng Zheng, Teresa Gatti, Yue Liu, Yongtao Qu, 2022-12-29 **Interface Controlled Organic Thin Films** Horst-Günter Rubahn, Helmut Sitter, Giles Horowitz, Katharina Al-Shamery, 2009-06-12

Organic semiconductors are a central topic of advanced materials research The book is aiming at bridging the gap between the development and production of devices and basic research on thin film characterisation using cutting edge techniques in surface and interface science Topics involve organic molecular based sensors interfaces in organic diodes and transistors mobility in organic field effect transistors and space charge problems integration of optoelectronic nanostructures nonlinear optical properties of organic nanostructures the wetting layer problem how to get from functionalized molecules to nanoaggregates optical electrical and mechanical properties of organic nanofibers as well as near field investigations of organic thin films

Semiconductors T. F. Connolly, 2012-12-06 And often on request from the issuing installation USAEC reports are also available from International Atomic Energy Agency Kaerntnerring A 1010 Vienna Austria National Lending Library Boston Spa England Monographs and reports of the National Bureau 01 Standards are for sale by Superintendent of Documents U S Government Printing Office Washington D C 20402 Theses listed as Dissertation Abstracts number are available in North and South America from University Microfilms Dissertation Copies P O Box 1764 Ann Arbor Michigan 48106 and elsewhere from University Microfilms Ltd St John s Road Tylers Green Penn Buckinghamshire England Conlenls Addendum xiii 1 Information Centers and Other Services 1 2 Journals 3 3 Methods of Crystal Growth Books and Reviews 5 4 Semiconductors General Reviews and Bibliographies 11 5 1 V VI Compounds 21 6 li IV V2 Compounds 23 7 II V Compounds 29 a General Reviews and Bibliographies 29 b Zinc Compounds 30 1 Zn3P2 30 2 ZnAs 30 3 ZnSb 30 4 Zn Mixed Systems 31 c Cadmium Compounds 31 31 1 Cd3P2 2 Cd3As2 31 3 CdSb Cd3Sb2 33 37 8 li VI Compounds a General Reviews and Bibliographies 37 b Zinc Compounds 39 1 ZnO 39 Preparation and Properties 39 Electrical Properties 41 Optical Properties 45 Physical Properties and Structure 47 2 ZnS 49 3 ZnSe 52 4 ZnTe 54 5 Zn Mixed Systems 55 55 c Cadmium Compounds 55 1 CdS 2 CdSe 60 3 CdTe 61 4 CdTernaries 62 d Mercury Compounds 64 *Semiconductor Materials* B.G.

Yacobi, 2006-04-18 The technological progress is closely related to the developments of various materials and tools made of those materials Even the different ages have been defined in relation to the materials used Some of the major attributes of the present day age i e the electronic materials age are such common tools as computers and fiber optic telecommunication systems in which semiconductor materials provide vital components for various mic electronic and optoelectronic devices in applications such as computing memory storage and communication The field of semiconductors encompasses a variety of disciplines This book is not intended to provide a comprehensive description of a wide range of semiconductor properties or

of a continually increasing number of the semiconductor device applications. Rather, the main purpose of this book is to provide an introductory perspective on the basic principles of semiconductor materials and their applications that are described in a relatively concise format in a single volume. Thus, this book should especially be suitable as an introductory text for a single course on semiconductor materials that may be taken by both undergraduate and graduate engineering students. This book should also be useful as a concise reference on semiconductor materials for researchers working in a wide variety of fields in physical and engineering sciences. *Metals Abstracts*, 1983. Semiconductor Nanowires II: Properties and Applications, 2016-01-11. Semiconductor Nanowires Part B and Volume 94 in the Semiconductor and Semimetals series focuses on semiconductor nanowires. Includes experts/contributors who review the most important recent literature. Contains a broad view including examination of semiconductor nanowires.

Adopting the Tune of Phrase: An Psychological Symphony within **Photoelectronic Properties Of Semiconductors**

In a global eaten by monitors and the ceaseless chatter of immediate connection, the melodic elegance and mental symphony produced by the prepared term usually disappear into the backdrop, eclipsed by the persistent noise and disturbances that permeate our lives. However, nestled within the pages of **Photoelectronic Properties Of Semiconductors** an enchanting literary prize overflowing with organic emotions, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, that captivating masterpiece conducts visitors on a mental journey, skillfully unraveling the hidden songs and profound influence resonating within each carefully crafted phrase. Within the depths of the poignant evaluation, we can investigate the book is key harmonies, analyze its enthralling publishing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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