

HANDBOOK ON PHYSICAL PROPERTIES OF SEMICONDUCTORS

Volume 1 Group IV Semiconductors

Edited by
Sadao Adachi

Handbook On Physical Properties Of Semiconductors

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Sadao Adachi



Handbook On Physical Properties Of Semiconductors Sadao Adachi, 2004

Handbook on Physical Properties of Semiconductors: Group-IV semiconductors Sadao Adachi, 2004

Handbook on Physical Properties of Semiconductors: III-V compound semiconductors Sadao Adachi, 2004

Handbook on Physical Properties of Semiconductors: II-VI compound semiconductors Sadao Adachi, 2004

The Physics of Semiconductors Marius Grundmann, 2021-03-06

The 4th edition of this highly successful textbook features copious material for a complete upper level undergraduate or graduate course guiding readers to the point where they can choose a specialized topic and begin supervised research. The textbook provides an integrated approach beginning from the essential principles of solid state and semiconductor physics to their use in various classic and modern semiconductor devices for applications in electronics and photonics. The text highlights many practical aspects of semiconductors: alloys, strain heterostructures, nanostructures, amorphous semiconductors, and noise, which are essential aspects of modern semiconductor research but often omitted in other textbooks. This textbook also covers advanced topics such as Bragg mirrors, resonators, polarized and magnetic semiconductors, nanowires, quantum dots, multi-junction solar cells, thin film transistors, and transparent conductive oxides. The 4th edition includes many updates and chapters on 2D materials and aspects of topology. The text derives explicit formulas for many results to facilitate a better understanding of the topics. Having evolved from a highly regarded two semester course on the topic, *The Physics of Semiconductors* requires little or no prior knowledge of solid state physics. More than 2100 references guide the reader to historic and current literature, including original papers, review articles, and topical books, providing a go-to point of reference for experienced researchers as well.

Properties of Semiconductor Alloys Sadao Adachi, 2009-03-12

The main purpose of this book is to provide a comprehensive treatment of the materials aspects of group IV, III-V, and II-VI semiconductor alloys used in various electronic and optoelectronic devices. The topics covered in this book include the structural, thermal, mechanical, lattice, vibronic, electronic, optical, and carrier transport properties of such semiconductor alloys. The book reviews not only commonly known alloys (SiGe, AlGaAs, GaInPAs, and ZnCdTe) but also new alloys such as dilute carbon alloys (CSiGe, CSiSn, etc.), III-N alloys (dilute nitride alloys, GaNAs, and GaInNAs), and Mg or Be-based II-VI semiconductor alloys. Finally, there is an extensive bibliography included for those who wish to find additional information, as well as tabulated values and graphical information on the properties of semiconductor alloys.

Handbook on Physical Properties of Ge, Si, GaAs and InP Adolfas Dargys, Jurgis Kundrotas, 1994

Photoconductivity and Photoconductive Materials, 2 Volume Set Safa O. Kasap, 2022-06-27

Dieses wichtige Referenzwerk behandelt die grundlegenden Konzepte der Photoleitfähigkeit und der photoleitenden Materialien. Mit *Photoconductivity and Photoconductive Materials* präsentiert Professor Kasap eine maßgebliche Zusammenstellung der wesentlichen Grundsätze der Photoleitfähigkeit und stellt eine Auswahl aktueller photoleitfähiger Materialien vor. Der erste Band des zweibändigen Werks

beginnt mit einer Darstellung der grundlegenden Konzepte und Definitionen. Es folgt eine Charakterisierung der verschiedenen Techniken auf Grundlage von stationärer, transienter und modulierter Photoleitfähigkeit und der neuen Methode der Ladungsextraktion durch linear steigende Spannung (CELIV). Auch die Physik der Terahertz Photoleitfähigkeit sowie die Grundlagen der organischen Halbleiter (LSOI) werden behandelt. Der zweite Band beginnt mit einem umfassenden Überblick über eine Vielzahl unterschiedlicher photoleitfähiger Materialien, wobei der Schwerpunkt auf einige der wichtigsten Photoleiter gelegt wird, darunter hydriertes amorphes Silizium, Cadmium, Quecksilber, Tellurid, verschiedene Röntgenphotoleiter, Diamantfilme, Metallhalogenidperowskite, Nanodrähte und Quantenpunkte. Auch die Anwendungen der photoleitenden Antenne werden erörtert. Das Werk, das zahlreiche Beiträge führender Autoren auf diesem Fachgebiet enthält, bietet den Leserinnen und Lesern außerdem eine gründliche Einführung in die Charakterisierung von Halbleitern mit Hilfe von Techniken der Photoleitfähigkeit, insbesondere gleichmäßiger Beleuchtung und Phototransistortrigger-Gittertechniken. Eine umfassende Darstellung organischer Photoleiter, einschließlich Informationen zu Photoerzeugung, Transport und Anwendungen im Druckbereich. Praktische Erörterungen der transienten Lichtleitfähigkeit im Flugzeitverfahren inklusive Experimentiertechniken und Interpretationshinweisen. Eine eingehende Betrachtung der transienten Photoleitfähigkeit organischer Halbleiterschichten und neuartiger Techniken der transienten Photoleitfähigkeit. Photoconductivity and Photoconductive Materials ist nicht nur ein wichtiges Referenzwerk für Physiker in der Forschung, Materialwissenschaftler und Elektroingenieure, sondern auch ein unverzichtbares Nachschlagewerk für Doktoranden und Studierende aller Semester, die sich mit dem Bereich der optoelektronischen Materialien beschäftigen sowie für Forschende in der Industrie. Ein umfassendes zweibändiges Werk mit Beiträgen führender Fachautoren, herausgegeben von einem angesehenen Forscher auf dem Gebiet der Photoleitfähigkeit.

Properties of Group-IV, III-V and II-VI Semiconductors Sadao Adachi, 2005-06-14. Almost all the semiconductors of practical interest are the group IV, III-V and II-VI semiconductors and the range of technical applications of such semiconductors is extremely wide. The purpose of this book is twofold: to discuss the key properties of the group IV, III-V and II-VI semiconductors to systemize these properties from a solid state physics aspect. The majority of the text is devoted to the description of the lattice structural, thermal, elastic, lattice dynamic, electronic energy band structural, optical and carrier transport properties of these semiconductors. Some corrective effects and related properties such as piezoelectric, elastooptic and electrooptic properties are also discussed. The book contains convenient tables summarizing the various material parameters and the definitions of important semiconductor properties. In addition, graphs are included in order to make the information more quantitative and intuitive. The book is intended not only for semiconductor device engineers but also for physicists and physical chemists and particularly for students specializing in the fields of semiconductor synthesis, crystal growth, semiconductor device physics and technology.

Microelectronics Jerry C. Whitaker, 2018-10-03. When it comes to electronics, demand grows as technology shrinks. From consumer and industrial markets to military and

aerospace applications the call is for more functionality in smaller and smaller devices Culled from the second edition of the best selling Electronics Handbook Microelectronics Second Edition presents a summary of the current state of microelectronics and its innovative directions This book focuses on the materials devices and applications of microelectronics technology It details the IC design process and VLSI circuits including gate arrays programmable logic devices and arrays parasitic capacitance and transmission line delays Coverage ranges from thermal properties and semiconductor materials to MOSFETs digital logic families memory devices microprocessors digital to analog and analog to digital converters digital filters and multichip module technology Expert contributors discuss applications in machine vision ad hoc networks printing technologies and data and optical storage systems The book also includes defining terms references and suggestions for further reading This edition features two new sections on fundamental properties and semiconductor devices With updated material and references in every chapter Microelectronics Second Edition is an essential reference for work with

microelectronics electronics circuits systems semiconductors logic design and microprocessors *X-Ray Absorption Spectroscopy of Semiconductors* Claudia S. Schnohr, Mark C. Ridgway, 2014-11-05 X ray Absorption Spectroscopy XAS is a powerful technique with which to probe the properties of matter equally applicable to the solid liquid and gas phases Semiconductors are arguably our most technologically relevant group of materials given they form the basis of the electronic and photonic devices that now so widely permeate almost every aspect of our society The most effective utilisation of these materials today and tomorrow necessitates a detailed knowledge of their structural and vibrational properties Through a series of comprehensive reviews this book demonstrates the versatility of XAS for semiconductor materials analysis and presents important research activities in this ever growing field A short introduction of the technique aimed primarily at XAS newcomers is followed by twenty independent chapters dedicated to distinct groups of materials Topics span dopants in crystalline semiconductors and disorder in amorphous semiconductors to alloys and nanometric material as well as in situ measurements of the effects of temperature and pressure Summarizing research in their respective fields the authors highlight important experimental findings and demonstrate the capabilities and applications of the XAS technique This book provides a comprehensive review and valuable reference guide for both XAS newcomers and experts involved in semiconductor materials research

Fundamentals of Solid State Engineering Manijeh Razeghi, 2009-03-03 Fundamentals of Solid State Engineering 3rd Edition provides a multi disciplinary introduction to solid state engineering combining concepts from physics chemistry electrical engineering materials science and mechanical engineering Revised throughout this third edition includes new topics such as electron electron and electron phonon interactions in addition to the Kane effective mass method A chapter devoted to quantum mechanics has been expanded to cover topics such as the harmonic oscillator the hydrogen atom the quantum mechanical description of angular momentum and the origin of spin This textbook also features an improved transport theory description which now goes beyond Drude theory discussing the

Boltzmann approach Introducing students to the rigorous quantum mechanical way of thinking about and formulating transport processes this textbook presents the basic physics concepts and thorough treatment of semiconductor characterization technology designed for solid state engineers **Ban dao ti wu li xing neng shou ce** ,2014 *Ban Dao Ti Wu Li Xing Neng Shou Ce* ,2014 **Advanced Semiconductors** Shadia Ikhmayies,2025-08-21 This book presents comprehensive reviews on the synthesis characterization properties and applications of advanced semiconducting materials It explores modern inorganic organic and hybrid semiconductors and semiconductor physics through density functional theory Topics include morphology dependent properties in inorganic semiconductors and methods for tuning the electron transport properties of nanotube semiconductors Readers will also find discussions on earth abundant and environmentally friendly chalcogenide nanomaterials for photovoltaics the use of chalcogenides and oxide semiconductors in photoelectrochemical reactions and insights into defect formation during ion implantation in diamond and c BN thin films A thermomechanical response model for photothermal diffusion waves in rotating magnetized semiconductors is also presented This book provides readers with a solid foundation in recent developments and current technologies for producing and characterizing semiconductors as well as theoretical and computational tools *Processing and Properties of Advanced Ceramics and Composites V* Narottam P. Bansal,J. P. Singh,Song Ko,Ricardo H. R. Castro,Gary Pickrell,Navin Jose Manjooran,Mani Nair,Gurpreet Singh,2013-07-01 Contains contributed 38 papers from the following seven symposia held during the 2012 Materials Science and Technology MS T 12 meeting Innovative Processing and Synthesis of Ceramics Glasses and Composites Advances in Ceramic Matrix Composites Solution Based Processing for Ceramic Materials Novel Sintering Processes and News in the Conventional Sintering and Grain Growth Nanotechnology for Energy Healthcare and Industry Dielectric Ceramic Materials and Electronic Devices Controlled Synthesis Processing and Applications of Structure and Functional Nanomaterials Introduction to the Physics and Chemistry of Materials Robert J. Naumann,2008-12-22 Discusses the Structure and Properties of Materials and How These Materials Are Used in Diverse Applications Building on undergraduate students backgrounds in mathematics science and engineering Introduction to the Physics and Chemistry of Materials provides the foundation needed for more advanced work in materials science Ideal for a two semes **Optical Properties of Materials and Their Applications** Jai Singh,2020-01-07 Provides a semi quantitative approach to recent developments in the study of optical properties of condensed matter systems Featuring contributions by noted experts in the field of electronic and optoelectronic materials and photonics this book looks at the optical properties of materials as well as their physical processes and various classes Taking a semi quantitative approach to the subject it presents a summary of the basic concepts reviews recent developments in the study of optical properties of materials and offers many examples and applications Optical Properties of Materials and Their Applications 2nd Edition starts by identifying the processes that should be described in detail and follows with the relevant classes of materials In addition to featuring four new chapters on

optoelectronic properties of organic semiconductors recent advances in electroluminescence perovskites and ellipsometry the book covers optical properties of disordered condensed matter and glasses concept of excitons photoluminescence photoinduced changes and electroluminescence in noncrystalline semiconductors and photoinduced bond breaking and volume change in chalcogenide glasses Also included are chapters on nonlinear optical properties of photonic glasses kinetics of the persistent photoconductivity in crystalline III V semiconductors and transparent white OLEDs In addition readers will learn about excitonic processes in quantum wells optoelectronic properties and applications of quantum dots and more Covers all of the fundamentals and applications of optical properties of materials Includes theory experimental techniques and current and developing applications Includes four new chapters on optoelectronic properties of organic semiconductors recent advances in electroluminescence perovskites and ellipsometry Appropriate for materials scientists chemists physicists and electrical engineers involved in development of electronic materials Written by internationally respected professionals working in physics and electrical engineering departments and government laboratories Optical Properties of Materials and Their Applications 2nd Edition is an ideal book for senior undergraduate and postgraduate students and teaching and research professionals in the fields of physics chemistry chemical engineering materials science and materials engineering **Semiconductors** ,2008 Earth-Abundant Materials for Solar Cells Sadao Adachi,2015-10-28 Systematically describes the physical and materials properties of copper based quaternary chalcogenide semiconductor materials enabling their potential for photovoltaic device applications Intended for scientists and engineers in particular in the fields of multinary semiconductor physics and a variety of photovoltaic and optoelectronic devices

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Introduction

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