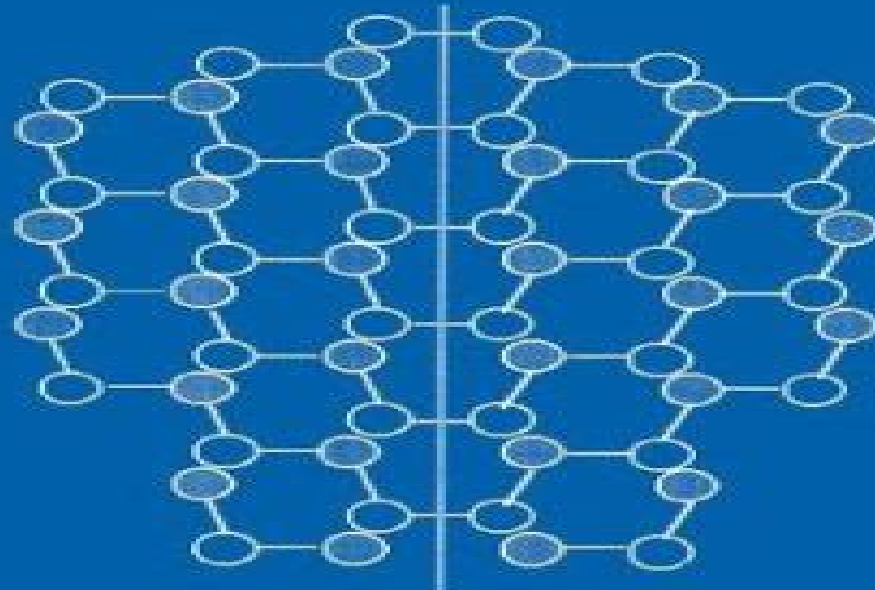


Extended Defects in Semiconductors

Electronic Properties,
Device Effects and Structures

D.B. Holt and B.G. Yacobi



Extended Defects In Semiconductors B G Yacobi

G Thomas



Extended Defects In Semiconductors B G Yacobi:

Extended Defects in Semiconductors D. B. Holt, B. G. Yacobi, 2007 An advanced undergraduate graduate level text explaining the properties and roles of extended defects in semiconductors **Extended Defects in Semiconductors** D. B. Holt, B. G. Yacobi, 2007-04-12 The elucidation of the effects of structurally extended defects on electronic properties of materials is especially important in view of the current advances in electronic device development that involve defect control and engineering at the nanometer level This book surveys the properties effects roles and characterization of extended defects in semiconductors The basic properties of extended defects dislocations stacking faults grain boundaries and precipitates are outlined and their effect on the electronic properties of semiconductors their role in semiconductor devices and techniques for their characterization are discussed These topics are among the central issues in the investigation and applications of semiconductors and in the operation of semiconductor devices The authors preface their treatment with an introduction to semiconductor materials and conclude with a chapter on point defect maldistributions This text is suitable for advanced undergraduate and graduate students in materials science and engineering and for those studying semiconductor physics

Dopants and Defects in Semiconductors Matthew D. McCluskey, Eugene E. Haller, 2018-02-19 Praise for the First Edition The book goes beyond the usual textbook in that it provides more specific examples of real world defect physics an easy reading broad introductory overview of the field Materials Today well written with clear lucid explanations Chemistry World This revised edition provides the most complete up to date coverage of the fundamental knowledge of semiconductors including a new chapter that expands on the latest technology and applications of semiconductors In addition to inclusion of additional chapter problems and worked examples it provides more detail on solid state lighting LEDs and laser diodes The authors have achieved a unified overview of dopants and defects offering a solid foundation for experimental methods and the theory of defects in semiconductors Matthew D McCluskey is a professor in the Department of Physics and Astronomy and Materials Science Program at Washington State University WSU Pullman Washington He received a Physics Ph D from the University of California UC Berkeley Eugene E Haller is a professor emeritus at the University of California Berkeley and a member of the National Academy of Engineering He received a Ph D in Solid State and Applied Physics from the University of Basel Switzerland

CdTe and Related Compounds; Physics, Defects, Hetero- and Nano-structures, Crystal Growth, Surfaces and Applications, 2009-10-22 Almost thirty years after the remarkable monograph of K Zanio and the numerous conferences and articles dedicated since that time to CdTe and CdZnTe after all the significant progresses in that field and the increasing interest in these materials for several extremely attractive industrial applications such as nuclear detectors and solar cells the edition of a new enriched and updated monograph dedicated to these two very topical II VI semiconductor compounds covering all their most prominent modern and fundamental aspects seemed very relevant and useful Detailed coverage of the main topics associated with the very topical II VI semiconductor compound CdTe and its alloy

CZT Review of the CdTe recent developments Fundamental background of many topics clearly introduced and exposed

Advanced Silicon Materials for Photovoltaic Applications Sergio Pizzini, 2012-06-07 Today the silicon feedstock for photovoltaic cells comes from processes which were originally developed for the microelectronic industry It covers almost 90% of the photovoltaic market with mass production volume at least one order of magnitude larger than those devoted to microelectronics However it is hard to imagine that this kind of feedstock extremely pure but heavily penalized by its high energy cost could remain the only source of silicon for a photovoltaic market which is in continuous expansion and which has a cumulative growth rate in excess of 30% in the last few years Even though reports suggest that the silicon share will slowly decrease in the next twenty years finding a way to manufacture a specific solar grade feedstock in large quantities at a low cost while maintaining the quality needed still remains a crucial issue Thin film and quantum confinement based silicon cells might be a complementary solution Advanced Silicon Materials for Photovoltaic Applications has been designed to describe the full potentialities of silicon as a multipurpose material and covers Physical chemical and structural properties of silicon Production routes including the promise of low cost feedstock for PV applications Defect engineering and the role of impurities and defects Characterization techniques and advanced analytical techniques for metallic and non metallic impurities Thin film silicon and thin film solar cells Innovative quantum effects and 3rd generation solar cells With contributions from internationally recognized authorities this book gives a comprehensive analysis of the state of the art of process technologies and material properties essential for anyone interested in the application and development of photovoltaics

Reliability of Semiconductor Lasers and Optoelectronic Devices Robert Herrick, Osamu Ueda, 2021-03-06 Reliability of Semiconductor Lasers and Optoelectronic Devices simplifies complex concepts of optoelectronics reliability with approachable introductory chapters and a focus on real world applications This book provides a brief look at the fundamentals of laser diodes introduces reliability qualification and then presents real world case studies discussing the principles of reliability and what occurs when these rules are broken Then this book comprehensively looks at optoelectronics devices and the defects that cause premature failure in them and how to control those defects Key materials and devices are reviewed including silicon photonics vertical cavity surface emitting lasers VCSELs InGaN LEDs and lasers and AlGaIn LEDs covering the majority of optoelectronic devices that we use in our everyday lives powering the Internet telecommunication solid state lighting illuminators and many other applications This book features contributions from experts in industry and academia working in these areas and includes numerous practical examples and case studies This book is suitable for new entrants to the field of optoelectronics working in R D Includes case studies and numerous examples showing best practices and common mistakes affecting optoelectronics reliability written by experts working in the industry Features the first wide ranging and comprehensive overview of fiber optics reliability engineering covering all elements of the practice from building a reliability laboratory qualifying new products to improving reliability on mature products

Provides a look at the reliability issues and failure mechanisms for silicon photonics VCSELs InGaN LEDs and lasers AlGaIn LEDs and more

Nanostructured Semiconductor Oxides for the Next Generation of Electronics and Functional Devices Serge Zhuiykov, 2014-02-14 Nanostructured Semiconductor Oxides for the Next Generation of Electronics and Functional Devices focuses on the development of semiconductor nanocrystals their technologies and applications including energy harvesting solar cells solid oxide fuel cells and chemical sensors Semiconductor oxides are used in electronics optics catalysts sensors and other functional devices In their 2D form the reduction in size confers exceptional properties useful for creating faster electronics and more efficient catalysts After explaining the physics affecting the conductivity and electron arrangement of nanostructured semiconductors the book addresses the structural and chemical modification of semiconductor nanocrystals during material growth It then covers their use in nanoscale functional devices particularly in electronic devices and carbon nanotubes It explores the impact of 2D nanocrystals such as graphene chalcogenides and oxide nanostructures on research and technology leading to a discussion of incorporating graphene and semiconductor nanostructures into composites for use in energy storage The final three chapters focus on the applications of these functional materials in photovoltaic cells solid oxide fuel cells and in environmental sensors including pH dissolved oxygen dissolved organic carbon and dissolved metal ion sensors Nanostructured Semiconductor Oxides for the Next Generation of Electronics and Functional Devices is a crucial resource for scientists applied researchers and production engineers working in the fabrication design testing characterization and analysis of new semiconductor materials This book is a valuable reference for those working in the analysis and characterization of new nanomaterials and for those who develop technologies for practical devices fabrication Focuses on the development of semiconductor nanocrystals their technologies and applications including energy harvesting solar cells solid oxide fuel cells and chemical sensors Reviews fundamental physics of conductivity and electron arrangement before proceeding to practical applications A vital resource for applied researchers and production engineers working with new semiconductor materials

Spectroscopic Analysis of Optoelectronic Semiconductors Juan Jimenez, Jens W. Tomm, 2016-08-16 This book deals with standard spectroscopic techniques which can be used to analyze semiconductor samples or devices in both bulk micrometer and submicrometer scale The book aims helping experimental physicists and engineers to choose the right analytical spectroscopic technique in order to get specific information about their specific demands For this purpose the techniques including technical details such as apparatus and probed sample region are described More important also the expected outcome from experiments is provided This involves also the link to theory that is not subject of this book and the link to current experimental results in the literature which are presented in a review like style Many special spectroscopic techniques are introduced and their relationship to the standard techniques is revealed Thus the book works also as a type of guide or reference book for people researching in optical spectroscopy of semiconductors

Nitride Wide Bandgap Semiconductor Material and Electronic

Devices Yue Hao, Jin Feng Zhang, Jin Cheng Zhang, 2016-11-03 This book systematically introduces physical characteristics and implementations of III nitride wide bandgap semiconductor materials and electronic devices with an emphasis on high electron mobility transistors HEMTs The properties of nitride semiconductors make the material very suitable for electronic devices used in microwave power amplification high voltage switches and high speed digital integrated circuits

Solid-State Chemistry Frank Hoffmann, 2023-08-07 This book invites you on a tour through the most relevant topics of solid state chemistry It provides an up to date overview about fascinating structures of inorganic matter and new research developments The reader will also gain crucial insights into many aspects of material science from ceramics to superconductors One chapter is specifically dedicated to the most rapidly evolving field of material science metal organic frameworks MOFs The book contains a chapter which is often neglected in others due to its complexity the intermetallic phases A concise but very didactic introduction to crystallographic specifications ensures that the reader will gain a deeper understanding of the crystal structures presented in the book The book places special emphasis on the graphical illustrations which were specifically designed to promote real insights into the structural features Instead of having to decipher hard to distinguish graphics the reader has an eye opening experience A further added value is that many references to the original research publications are given which enables easy follow up for more detailed study Multiphysics in Nanostructures

Yoshitaka Umeno, Takahiro Shimada, Yusuke Kinoshita, Takayuki Kitamura, 2017-07-13 This is the first book to systematically review and summarize the recent rapid advances and varied results of multiphysics in nanoscale materials including elastic strain engineering This book comprises topics on remarkable properties of multiphysics in low dimensional nanoscale components from first principles density functional theory or tight binding calculations which are essential for the nonlinear multiphysics couplings due to quantum mechanical effects This volume provides a clear point of view and insight into the varied work done in diverse fields and disciplines and promotes a fundamental to state of the art understanding of properties of multiphysics Because the novelty and complexity of mechanical and multiphysical properties of low dimensional nanostructures originate from combinations of outer shapes e g films wires tubes and dots and inner understructures e g grain boundaries domain walls vacancies and impurities the nanostructures are classified into fundamental elements and the properties of each element and their interplay are reviewed for systematic in depth understanding This book points out a new direction for multiphysics in nanostructures which opens the door both to exploiting and to designing novel functionalities at the nanoscale Readers will be interested in this rapidly expanding multidisciplinary work and will be motivated to enter this promising research area Silicon Carbide Moumita Mukherjee, 2011-10-10 Silicon Carbide SiC and its polytypes used primarily for grinding and high temperature ceramics have been a part of human civilization for a long time The inherent ability of SiC devices to operate with higher efficiency and lower environmental footprint than silicon based devices at high temperatures and under high voltages pushes SiC on the verge of becoming the material of choice for high power electronics

and optoelectronics What is more important SiC is emerging to become a template for graphene fabrication and a material for the next generation of sub 32nm semiconductor devices It is thus increasingly clear that SiC electronic systems will dominate the new energy and transport technologies of the 21st century In 21 chapters of the book special emphasis has been placed on the materials aspects and developments thereof To that end about 70% of the book addresses the theory crystal growth defects surface and interface properties characterization and processing issues pertaining to SiC The remaining 30% of the book covers the electronic device aspects of this material Overall this book will be valuable as a reference for SiC researchers for a few years to come This book prestigiously covers our current understanding of SiC as a semiconductor material in electronics The primary target for the book includes students researchers material and chemical engineers semiconductor manufacturers and professionals who are interested in silicon carbide and its continuing progression

Materials and Reliability Handbook for Semiconductor Optical and Electron Devices Osamu Ueda, Stephen J. Pearton, 2012-09-22 Materials and Reliability Handbook for Semiconductor Optical and Electron Devices provides comprehensive coverage of reliability procedures and approaches for electron and photonic devices These include lasers and high speed electronics used in cell phones satellites data transmission systems and displays Lifetime predictions for compound semiconductor devices are notoriously inaccurate due to the absence of standard protocols Manufacturers have relied on extrapolation back to room temperature of accelerated testing at elevated temperature This technique fails for scaled high current density devices Device failure is driven by electric field or current mechanisms or low activation energy processes that are masked by other mechanisms at high temperature The Handbook addresses reliability engineering for III V devices including materials and electrical characterization reliability testing and electronic characterization These are used to develop new simulation technologies for device operation and reliability which allow accurate prediction of reliability as well as the design specifically for improved reliability The Handbook emphasizes physical mechanisms rather than an electrical definition of reliability Accelerated aging is useful only if the failure mechanism is known The Handbook also focuses on voltage and current acceleration stress mechanisms

Progress in Photon Science Kaoru Yamanouchi, Sergey Tunik, Vladimir Makarov, 2019-01-23 This second volume of Progress in Photon Science Recent Advances presents the latest achievements made by world leading researchers in Russia and Japan Thanks to recent advances in light source technologies detection techniques for photons electrons and charged particles and imaging technologies the frontiers of photon science are now being expanding rapidly Readers will be introduced to the latest research efforts in this rapidly growing research field through topics covering bioimaging and biological photochemistry atomic and molecular phenomena in laser fields laser plasma interaction advanced spectroscopy electron scattering in laser fields photochemistry on novel materials solid state spectroscopy photoexcitation dynamics of nanostructures and clusters and light propagation

Dislocations in Solids, 2009-08-28 New materials addressed for the first time include the chapters on minerals by Barber et al and the chapter on

dislocations in colloidal crystals by Schall and Spaepen Moriarty et al extend the first principles calculations of kink configurations in bcc metals to high pressures including the use of flexible boundary conditions to model dilatational effects Rabier et al clarify the issue of glide shuffle slip systems in diamond cubic and related III V compounds Metadislocations discussed by Feuerbacher and Heggen represent a new type of defect in multicomponent metal compounds and alloys Kink mechanisms for dislocation motion at high pressure in bcc metals Dislocation core structures identified in silicon at high stress Metadislocations a new type of defect identified and described Extension of dislocation concepts to complex minerals First observations of dislocations in colloidal crystals

Metalorganic Vapor Phase Epitaxy (MOVPE) Stuart Irvine, Peter Capper, 2019-09-04 Systematically discusses the growth method material properties and applications for key semiconductor materials MOVPE is a chemical vapor deposition technique that produces single or polycrystalline thin films As one of the key epitaxial growth technologies it produces layers that form the basis of many optoelectronic components including mobile phone components GaAs semiconductor lasers and LEDs III Vs nitrides optical communications oxides infrared detectors photovoltaics II IV materials etc Featuring contributions by an international group of academics and industrialists this book looks at the fundamentals of MOVPE and the key areas of equipment safety precursor chemicals and growth monitoring It covers the most important materials from III V and II VI compounds to quantum dots and nanowires including sulfides and selenides and oxides ceramics Sections in every chapter of Metalorganic Vapor Phase Epitaxy MOVPE Growth Materials Properties and Applications cover the growth of the particular materials system the properties of the resultant material and its applications The book offers information on arsenides phosphides and antimonides nitrides lattice mismatched growth CdTe MCT mercury cadmium telluride ZnO and related materials equipment and safety and more It also offers a chapter that looks at the future of the technique Covers in order the growth method material properties and applications for each material Includes chapters on the fundamentals of MOVPE and the key areas of equipment safety precursor chemicals and growth monitoring Looks at important materials such as III V and II VI compounds quantum dots and nanowires Provides topical and wide ranging coverage from well known authors in the field Part of the Materials for Electronic and Optoelectronic Applications series Metalorganic Vapor Phase Epitaxy MOVPE Growth Materials Properties and Applications is an excellent book for graduate students researchers in academia and industry as well as specialist courses at undergraduate postgraduate level in the area of epitaxial growth MOVPE MOCVD MBE

Photodiodes Ilgu Yun, 2012-12-19 This book represents recent progress and development of the photodiodes including the fundamental reviews and the specific applications developed by the authors themselves The key idea of this book is that it allows authors to deal with a wide range of backgrounds and research progresses in photodiode related areas With respect to the original collection of the book chapters this book contains several improvements and new problems and related solutions are also discussed in the areas from fundamental physics and design to device and circuit applications The book is intended for graduate students engineers

and researchers who are especially interested in the area of optoelectronic device applications including photodiodes solar cells CMOS image sensors Optoelectronic Integrated Circuits etc

Wide Bandgap Semiconductors for Power Electronics Peter Wellmann, Noboru Ohtani, Roland Rupp, 2022-01-10 Wide Bandgap Semiconductors for Power Electronics A guide to the field of wide bandgap semiconductor technology Wide Bandgap Semiconductors for Power Electronics is a comprehensive and authoritative guide to wide bandgap materials silicon carbide gallium nitride diamond and gallium III oxide With contributions from an international panel of experts the book offers detailed coverage of the growth of these materials their characterization and how they are used in a variety of power electronics devices such as transistors and diodes and in the areas of quantum information and hybrid electric vehicles The book is filled with the most recent developments in the burgeoning field of wide bandgap semiconductor technology and includes information from cutting edge semiconductor companies as well as material from leading universities and research institutions By taking both scholarly and industrial perspectives the book is designed to be a useful resource for scientists academics and corporate researchers and developers This important book Presents a review of wide bandgap materials and recent developments Links the high potential of wide bandgap semiconductors with the technological implementation capabilities Offers a unique combination of academic and industrial perspectives Meets the demand for a resource that addresses wide bandgap materials in a comprehensive manner Written for materials scientists semiconductor physicists electrical engineers Wide Bandgap Semiconductors for Power Electronics provides a state of the art guide to the technology and application of SiC and related wide bandgap materials

Crystal Dislocations: Their Impact on Physical Properties of Crystals Peter Lagerlof, 2019-01-09 This book is a printed edition of the Special Issue Crystal Dislocations Their Impact on Physical Properties of Crystals that was published in Crystals

Future Directions in Silicon Photonics, 2019-08-16 Future Directions in Silicon Photonics Volume 101 in the Semiconductors and Semimetals series highlights new advances in the field with this updated volume presenting the latest developments as discussed by esteemed leaders in the field silicon photonics Provides the authority and expertise of leading contributors from an international board of authors Represents the latest release in the Semiconductors and Semimetals series Includes the latest information on Silicon Photonics

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