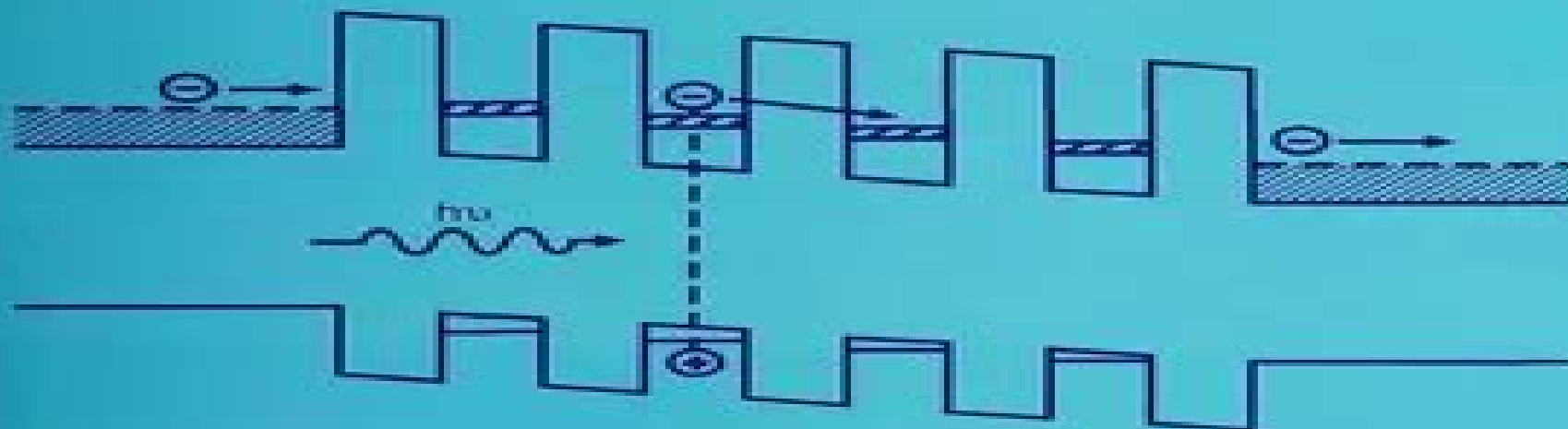


SEMICONDUCTOR INTERFACES AND MICROSTRUCTURES

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World Scientific

Semiconductor Interfaces And Microstructures

I. Ohdomari, M. Oshima, A. Hiraki



Semiconductor Interfaces And Microstructures:

Semiconductor Interfaces, Microstructures and Devices Zhe Chuan Feng, 1993-01-01 A semiconductor interface is the contact between the semiconductor itself and a metal. The interface is a site of change and it is imperative to ensure that the semiconducting material is sealed at this point to maintain its reliability. This book examines various aspects of interfaces showing how they can affect microstructures and devices such as infrared photodetectors as used in nightsights and blue diode lasers. It presents various techniques for examining different types of semiconductor material and suggests future potential commercial applications for different semiconductor devices. Written by experts in their fields and focusing on metallic semiconductors Cadmium Telluride and related compounds this comprehensive overview of recent developments is an essential reference for those working in the semiconductor industry and provides a concise and comprehensive introduction to those new to the field.

Semiconductor Interfaces And Microstructures Zhe Chuan Feng, 1992-08-31 Recently there have been major achievements in the study of semiconductor interfaces and microstructures for different materials and structural systems. Progress has been made through various experimental technologies and theoretical methods. This book provides an up to date review on these advances and includes the following major subjects: IV-III-V and II-VI semiconductors and metal semiconductor structures; new developments in growth methods; electric, optical, magnetic and structural characterization and properties; relative theories; electronic transport; phonons and interface modes; devices and applications. These materials are organized into four sections: General; III-V; II-VI; and IV-III-V which offer comprehensive information and help readers in following the new developments in the research frontiers of the above fields.

Raman Scattering on Emerging Semiconductors and Oxides Zhe Feng, 2024-09-16 Raman Scattering on Emerging Semiconductors and Oxides presents Raman scattering studies. It describes the key fundamental elements in applying Raman spectroscopies to various semiconductors and oxides without complicated and deep Raman theories. Across nine chapters it covers SiC and IV-III-V semiconductors, III-V and II-VI semiconductors, ZnO based and GaO based semiconducting oxides, Graphene, ferroelectric oxides and other emerging materials, Wide bandgap semiconductors of SiC, GaN and ZnO and Ultra wide gap semiconductors of AlN, Ga₂O₃ and graphene. Key achievements from the author and collaborators in the above fields are referred to and cited with typical Raman spectral graphs and analyses. Written for engineers, scientists and academics, this comprehensive book will be fundamental for newcomers in Raman spectroscopy.

Zhe Chuan Feng has had an impressive career spanning many years of important work in engineering and tech including as a professor at the Graduate Institute of Photonics, establishing the Science Exploring Lab, joining Kennesaw State University as an adjunct professor part time and at the Department of Electrical and Computer Engineering, Southern Polytechnic College of Engineering and Engineering Technology. Currently he is focusing on materials research for LED, III nitrides, SiC, ZnO, other semiconductors, oxides and nanostructures and has devoted time to materials research and growth of III-V and II-VI.

compounds LED III nitrides SiC ZnO GaO and other semiconductors oxides Professor Feng has also edited and published multiple review books in his field alongside authoring scientific journal papers and conference proceeding papers He has organized symposiums and been an invited speaker at different international conferences and universities He has also served as a guest editor for special journal issues

Heteroepitaxy of Semiconductors John E. Ayers, 2018-10-08 Heteroepitaxy has evolved rapidly in recent years With each new wave of material substrate combinations our understanding of how to control crystal growth becomes more refined Most books on the subject focus on a specific material or material family narrowly explaining the processes and techniques appropriate for each Surveying the principles common to all types of semiconductor materials Heteroepitaxy of Semiconductors Theory Growth and Characterization is the first comprehensive fundamental introduction to the field This book reflects our current understanding of nucleation growth modes relaxation of strained layers and dislocation dynamics without emphasizing any particular material Following an overview of the properties of semiconductors the author introduces the important heteroepitaxial growth methods and provides a survey of semiconductor crystal surfaces their structures and nucleation With this foundation the book provides in depth descriptions of mismatched heteroepitaxy and lattice strain relaxation various characterization tools used to monitor and evaluate the growth process and finally defect engineering approaches Numerous examples highlight the concepts while extensive micrographs schematics of experimental setups and graphs illustrate the discussion Serving as a solid starting point for this rapidly evolving area Heteroepitaxy of Semiconductors Theory Growth and Characterization makes the principles of heteroepitaxy easily accessible to anyone preparing to enter the field

Control of Semiconductor Interfaces I. Ohdomari, M. Oshima, A. Hiraki, 2017-05-03 This book focuses exclusively on control of interfacial properties and structures for semiconductor device applications from the point of view of improving and developing novel electrical properties The following topics are covered metal semiconductors semiconductor hetero interfaces characterization semiconducting new materials insulator semiconductor interfaces in device control of interface formation control of interface properties contact metallization A variety of up to date research topics such as atomic layer epitaxy atomic layer passivation atomic scale characterization including STM and SR techniques single ion implementation self organization crystal growth in situ measurements for process control and extremely high spatial resolution analysis techniques are also included Furthermore it bridges the macroscopic mesoscopic and atomic scale regimes of semiconductor interfaces describing the state of the art in forming controlling and characterizing unique semiconductor interfaces which will be of practical importance in advanced devices Intended for both technologists who require an up to date assessment of methods for interface formation processing and characterization and solid state researchers who desire the latest developments in understanding the basic mechanisms of interface physics chemistry and electronics this book will be a welcome addition to the existing literature

Delta-doping of Semiconductors E. F. Schubert, 1996-03-14 This book is the first to give a comprehensive review of the theory fabrication

characterisation and device applications of abrupt shallow and narrow doping profiles in semiconductors. Such doping profiles are a key element in the development of modern semiconductor technology. After an introductory chapter setting out the basic theoretical and experimental concepts involved, the fabrication of abrupt and narrow doping profiles by several different techniques, including epitaxial growth, is discussed. The techniques for characterising doping distributions are then presented, followed by several chapters devoted to the inherent physical properties of narrow doping profiles. The latter part of the book deals with specific devices. The book will be of great interest to graduate students, researchers and engineers in the fields of semiconductor physics and microelectronic engineering.

Microstructure and Properties of Micro- and Nanoscale Materials, Films, and Coatings (NAP 2019) Alexander D. Pogrebnjak, Oleksandr Bondar, 2020-01-28. This book presents the findings of experimental and theoretical, including first principles molecular dynamics simulation studies of nanostructured and nanocomposite metal based materials and nanoscale multilayer coatings fabricated by physical or chemical vapor deposition, magnetron sputtering, electrospray, alloying, ionic layer adsorption, contact melting, and high current electron beam irradiation. It also discusses novel methods of nanocomposite formation as well as the structure of the deposited films, coatings, and other nanoscale materials, their elemental and phase composition, and their physical, mechanical, tribological, magnetic, and electrical properties. Lastly, it explores the influence of various surface modification methods, such as thermal annealing, pulsed laser modification, thermomechanical, and ultrasonic treatment, as well as different properties of nanostructured films.

Optical Properties Of Low-dimensional Materials Yoshihiko Kanemitsu, Tetsuo Ogawa, 1996-01-18. This book surveys recent experimental and theoretical studies on optical properties of low dimensional materials, e.g. artificial crystals in zeolites, C60 and its related compounds, silicon nanostructures including porous Si, II-VI and III-V semiconductor quantum structures, and Pb based natural quantum well systems. The eight excellent detailed review articles are written by authorities on each field in Japan. All the materials introduced in this book yield new optical phenomena originating from their mesoscopic and low dimensional characters, contributing to a new research field of condensed matter and optical physics.

Proceedings of the First International Symposium on Long Wavelength Infrared Detectors and Arrays: Physics and Applications Farhad Radpour, Victor R. McCrary, 1995.

Handbook of GaN Semiconductor Materials and Devices Wengang (Wayne) Bi, Haochung (Henry) Kuo, Peicheng Ku, Bo Shen, 2017-10-20. This book addresses material growth, device fabrication, device application, and commercialization of energy efficient white light emitting diodes (LEDs), laser diodes, and power electronics devices. It begins with an overview on basics of semiconductor materials, physics, growth, and characterization techniques, followed by detailed discussion of advantages, drawbacks, design issues, processing, applications, and key challenges for state of the art GaN based devices. It includes state of the art material synthesis techniques, with an overview on growth technologies for emerging bulk or free standing GaN and AlN substrates, and their applications in electronics, detection, sensing, optoelectronics, and photonics. Wengang Wayne Bi is Distinguished

Chair Professor and Associate Dean in the College of Information and Electrical Engineering at Hebei University of Technology in Tianjin China Hao chung Henry Kuo is Distinguished Professor and Associate Director of the Photonics Center at National Chiao Tung University Hsin Tsu Taiwan China Pei Cheng Ku is an associate professor in the Department of Electrical Engineering Computer Science at the University of Michigan Ann Arbor USA Bo Shen is the Cheung Kong Professor at Peking University in China

Balance Equation Approach To Electron Transport In Semiconductors Xiaolin Lei, 2008-08-21 This book presents a systematic comprehensive and up to date description of the physical basis of the balance equation transport theory and its applications in bulk and low dimensional semiconductors The different aspects of the balance equation method originally proposed by C S Ting and the author of the present book were reviewed in the volume entitled Physics of Hot Electron Transport in Semiconductors edited by C S Ting World Scientific 1992 Since then this method has been extensively developed and applied to various new fields such as transport in nonparabolic systems spatially nonuniform systems and semiconductor devices miniband conduction of superlattices hot electron magnetotransport effects of impact ionization in transport microwave induced magnetoresistance oscillation radiation driven transport and electron cooling etc Due to its simplicity and effectiveness the balance equation approach has become a useful tool to tackle the many transport phenomena in semiconductors and provides a reliable basis for developing theories modeling devices and explaining experiments The book may be used as a textbook by graduate students It will also benefit researchers in the field by helping them grasp the basic principles and techniques of the method without having to spend a lot of time digging out the information from widespread literature covering a period of 30 years

SPIE ... Publications Index, 1990

RF and Microwave Passive and Active Technologies Mike Golio, Janet Golio, 2018-10-03 In the high frequency world the passive technologies required to realize RF and microwave functionality present distinctive challenges SAW filters dielectric resonators MEMS and waveguide do not have counterparts in the low frequency or digital environment Even when conventional lumped components can be used in high frequency applications their behavior does not resemble that observed at lower frequencies RF and Microwave Passive and Active Technologies provides detailed information about a wide range of component technologies used in modern RF and microwave systems Updated chapters include new material on such technologies as MEMS device packaging surface acoustic wave SAW filters bipolar junction and heterojunction transistors and high mobility electron transistors HMETs The book also features a completely rewritten section on wide bandgap transistors

Optical Characterization of Semiconductors Sidney Perkowitz, 2012-12-02 This is the first book to explain illustrate and compare the most widely used methods in optics photoluminescence infrared spectroscopy and Raman scattering Written with non experts in mind the book develops the background needed to understand the why and how of each technique but does not require special knowledge of semiconductors or optics Each method is illustrated with numerous case studies Practical information drawn from the authors experience is given to help establish optical facilities including

commercial sources for equipment and experimental details For industrial scientists with specific problems in semiconducting materials for academic scientists who wish to apply their spectroscopic methods to characterization problems and for students in solid state physics materials science and engineering and semiconductor electronics and photonics this book provides a unique overview bringing together these valuable techniques in a coherent way for the first time Discusses and compares infrared Raman and photoluminescence methods Enables readers to choose the best method for a given problem Illustrates applications to help non experts and industrial users with answers to selected common problems Presents fundamentals with examples from the semiconductor literature without excessive abstract discussion Features equipment lists and discussion of techniques to help establish characterization laboratories

Fundamental Aspects of Ultrathin Dielectrics on Si-based Devices Eric Garfunkel, Evgeni Gusev, Alexander Vul', 1998-03-31 An extrapolation of ULSI scaling trends indicates that minimum feature sizes below 0.1 μm and gate thicknesses of Audience Both expert scientists and engineers who wish to keep up with cutting edge research and new students who wish to learn more about the exciting basic research issues relevant to next generation device technology

RF and Microwave Semiconductor Device Handbook Mike Golio, 2017-12-19 Offering a single volume reference for high frequency semiconductor devices this handbook covers basic material characteristics system level concerns and constraints simulation and modeling of devices and packaging Individual chapters detail the properties and characteristics of each semiconductor device type including Varactors Schottky diodes transit time devices BJTs HBTs MOSFETs MESFETs and HEMTs Written by leading researchers in the field the RF and Microwave Semiconductor Device Handbook provides an excellent starting point for programs involving development technology comparison or acquisition of RF and wireless semiconductor devices

SiC Materials and Devices Michael Shur, Sergey L. Rumyantsev, Mikhail Efimovich Levinshtein, 2006 After many years of research and development silicon carbide has emerged as one of the most important wide band gap semiconductors The first commercial SiC devices OCo power switching Schottky diodes and high temperature MESFETs OCo are now on the market This two volume book gives a comprehensive up to date review of silicon carbide materials properties and devices With contributions by recognized leaders in SiC technology and materials and device research SiC Materials and Devices is essential reading for technologists scientists and engineers who are working on silicon carbide or other wide band gap materials and devices The volumes can also be used as supplementary textbooks for graduate courses on silicon carbide and wide band gap semiconductor technology Contents SiC Material Properties G Pensl et al SiC Homoepitaxy and Heteroepitaxy A S Bakin Ohmic Contacts to SiC F Roccaforte et al Silicon Carbide Schottky Barrier Diode J H Zhao et al High Power SiC PiN Rectifiers R Singh Silicon Carbide Diodes for Microwave Applications K Vassilevski SiC Thyristors M E Levinshtein et al Silicon Carbide Static Induction Transistors G C DeSalvo Readership Technologists scientists engineers and graduate students working on silicon carbide or other wide band gap materials and devices *Sic Materials*

And Devices - Volume 1 Sergey Rumyantsev, Michael S Shur, Michael E Levinshtein, 2006-07-25 After many years of research and development silicon carbide has emerged as one of the most important wide band gap semiconductors The first commercial SiC devices power switching Schottky diodes and high temperature MESFETs are now on the market This two volume book gives a comprehensive up to date review of silicon carbide materials properties and devices With contributions by recognized leaders in SiC technology and materials and device research SiC Materials and Devices is essential reading for technologists scientists and engineers who are working on silicon carbide or other wide band gap materials and devices The volumes can also be used as supplementary textbooks for graduate courses on silicon carbide and wide band gap semiconductor technology **Polycrystalline Semiconductors** Hans J. Möller, Horst P. Strunk, Jürgen H.

Werner, 2012-12-06 This book summarizes the most recent aspects of polycrystalline semiconductors as presented at the conference Polycrystalline Semiconductors Grain Boundaries and Interfaces It contains 12 review articles on selected topics written by experts in their fields and 41 complementary contributed papers The structure chemistry and physics of grain boundaries and other interfaces are experimentally and theoretically studied Aspects of the technologically important polycrystalline silicon are discussed in detail Also covered are other polycrystalline semiconductors germanium and compound semiconductors that are currently of interest in fundamental research and in the technology of solar cells and thin film devices Anyone interested in polycrystalline semiconductors will be able to use this comprehensive collection to advantage It also suggests directions for new research and development Semiconductor Characterization W. Murray Bullis, David G. Seiler, Alain C. Diebold, 1996 Market Those in government industry and academia interested in state of the art knowledge on semiconductor characterization for research development and manufacturing Based on papers given at an International Nist Workshop in January 1995 Semiconductor Characterization covers the unique characterization requirements of both silicon IC development and manufacturing and compound semiconductor materials devices and manufacturing Additional sections discuss technology trends and future requirements for compound semiconductor applications Also highlighted are recent developments in characterization including in situ in FAB and off line analysis methods The book provides a concise effective portrayal of industry needs and problems in the important specialty of metrology for semiconductor technology

Semiconductor Interfaces And Microstructures Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Semiconductor Interfaces And Microstructures**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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