



Characterization of Semiconductor Heterostructures and Nanostructures

Second Edition



Edited by

Carlo Lamberti
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Characterization Of Semiconductor Heterostructures And Nanostructures Second Edition

M Walker



Characterization Of Semiconductor Heterostructures And Nanostructures Second Edition:

Characterization of Semiconductor Heterostructures and Nanostructures Giovanni Agostini, Carlo Lamberti, 2013-04-11 Characterization of Semiconductor Heterostructures and Nanostructures is structured so that each chapter is devoted to a specific characterization technique used in the understanding of the properties structural physical chemical electrical etc of semiconductor quantum wells and superlattices An additional chapter is devoted to ab initio modeling The book has two basic aims The first is educational providing the basic concepts of each of the selected techniques with an approach understandable by advanced students in Physics Chemistry Material Science Engineering Nanotechnology The second aim is to provide a selected set of examples from the recent literature of the TOP results obtained with the specific technique in understanding the properties of semiconductor heterostructures and nanostructures Each chapter has this double structure the first part devoted to explain the basic concepts and the second to the discussion of the most peculiar and innovative examples The topic of quantum wells wires and dots should be seen as a pretext of applying top level characterization techniques in understanding the structural electronic etc properties of matter at the nanometer and even sub nanometer scale In this respect it is an essential reference in the much broader and extremely hot field of Nanotechnology Comprehensive collection of the most powerful characterization techniques for semiconductors heterostructures and nanostructures Most of the chapters are authored by scientists that are world wide among the top ten in publication ranking of the specific field Each chapter starts with a didactic introduction on the technique The second part of each chapters deals with a selection of top examples highlighting the power of the specific technique to analyse the properties of semiconductors heterostructures and nanostructures

Characterization of Semiconductor Heterostructures and Nanostructures Giovanni Agostini, Carlo Lamberti, 2011-08-11 In the last couple of decades high performance electronic and optoelectronic devices based on semiconductor heterostructures have been required to obtain increasingly strict and well defined performances needing a detailed control at the atomic level of the structural composition of the buried interfaces This goal has been achieved by an improvement of the epitaxial growth techniques and by the parallel use of increasingly sophisticated characterization techniques and of refined theoretical models based on ab initio approaches This book deals with description of both characterization techniques and theoretical models needed to understand and predict the structural and electronic properties of semiconductor heterostructures and nanostructures Comprehensive collection of the most powerful characterization techniques for semiconductor heterostructures and nanostructures Most of the chapters are authored by scientists that are among the top 10 worldwide in publication ranking of the specific field Each chapter starts with a didactic introduction on the technique The second part of each chapter deals with a selection of top examples highlighting the power of the specific technique to analyze the properties of semiconductors

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Billinge,2013-04-11 Characterization of Semiconductor Heterostructures and Nanostructures Carlo Lamberti,2008-08-19 Comprehensive collection of the most powerful characterization techniques for semiconductors heterostructures and nanostructures Most of the chapters are authored by scientists that are world wide among the top ten in publication ranking of the specific field Each chapter starts with a didactic introduction on the technique The second part of each chapters deals with a selection of top examples highlighting the power of the specific technique to analyse the properties of semiconductors heterostructures and nanostructures X-Ray Absorption and X-Ray Emission Spectroscopy Jeroen A. van Bokhoven,Carlo Lamberti,2016-01-14 X Ray Absorption and X ray Emission Spectroscopy Theory and Applications During the last two decades remarkable and often spectacular progress has been made in the methodological and instrumental aspects of x ray absorption and emission spectroscopy This progress includes considerable technological improvements in the design and production of detectors especially with the development and expansion of large scale synchrotron reactors All this has resulted in improved analytical performance and new applications as well as in the perspective of a dramatic enhancement in the potential of x ray based analysis techniques for the near future This comprehensive two volume treatise features articles that explain the phenomena and describe examples of X ray absorption and emission applications in several fields including chemistry biochemistry catalysis amorphous and liquid systems synchrotron radiation and surface phenomena Contributors explain the underlying theory how to set up X ray absorption experiments and how to analyze the details of the resulting spectra X Ray Absorption and X ray Emission Spectroscopy Theory and Applications Combines the theory instrumentation and applications of x ray absorption and emission spectroscopies which offer unique diagnostics to study almost any object in the Universe Is the go to reference book in the subject for all researchers across multi disciplines since intense beams from modern sources have revolutionized x ray science in recent years Is relevant to students postdocurates and researchers working on x rays and related synchrotron sources and applications in materials physics medicine environment geology and biomedical materials The MOS System Olof Engström,2014-09-25 This detailed and up to date guide to modern MOS structures describes important tools cutting edge models novel phenomena and current challenges in measuring and improving the control of future MOS systems for transistor channels Building up from basic electrostatics it introduces the ideal MOS system physical and electrical properties of high k oxides their dielectric constants and energy offsets to semiconductors and metals before moving on to electrical and physical characterization methods for high k dielectric materials Finally real MOS systems are introduced high k dielectrics and interlayers the influence of phonon dynamics interface states and bulk traps effective metal work functions gate leakage phenomena and high mobility channel materials Abstract concepts are supported by practical examples and critical comparison encouraging an intuitive understanding of the principles at work and presented alongside recent theoretical and experimental results making this the ideal companion for researchers graduate students and industrial development engineers working in nanoelectronics Hydrogenated Dilute

Nitride Semiconductors Gianluca Ciatto,2015-04-01 The nonlinear behavior of nitrogen and the passivation effect of hydrogen in dilute nitrides open the way to the manufacture of a new class of nanostructured devices with in plane variation of the optical band gap This book addresses the modifications of the electronic structure and of the optical and structural properties induced in these technol

A Fresh Concept of Software-resemblant Hardware to Leap to 6G and Future Networks Jacopo Iannacci,2024-04-01 For a decade with the uptake of 4G we have become accustomed to the relentless increase in data and services on the move The deployment of 5G is advancing crucial key performance indicators KPIs along with quality of service QoS Setting the horizon to 2030 and later 6G will take the KPIs to numbers 100 1000 times better than 5G Yet the actual disruption of 6G and future networks FN will take place following other unprecedented paths Artificial intelligence AI will be exploited in a threadlike fashion at any level of the network physical infrastructure This will introduce to date unknown features like self sustaining self evolution and high resilience of small portions of the infrastructure pioneering the concept of a network of networks Each segment of the infrastructure will bear a high degree of independence while working at the same time as a whole in full orchestration with the rest of the network Given such a scenario this book claims that the established and currently in use paradigms for the design and development of hardware software HW SW systems are not appropriate to address the challenges of 6G and further ahead of FN In response unprecedented design approaches are suggested relying on a fresh reinterpretation of the standard concept of HW with specific attention to the network edge and edge intelligence EI This work develops some conceptual tools that may help address the technical challenges resulting from the intricate scenario sketched above Within the mentioned HW reconceptualization a pivotal role is forecasted for microtechnologies and nanotechnologies intended with a broad meaning which embraces among others devices systems MEMS NEMS and materials

Advances in Bionanocomposites Bhasha Sharma,Sabu Thomas,Pramendra Kumar Bajpai,Kajal Ghosal,Shashank Shekhar,2023-08-17 Advances in Bionanocomposites Materials Applications and Life Cycle brings together the latest research in bio based nanocomposites with a strong emphasis on improved sustainability in terms of preparation lifecycle and end applications The book begins by introducing biopolymers bionanocomposites and the latest methods for their synthesis processing and characterization Other sections focus on specific bio based materials including bionanocomposites based on polylactic acid poly vinyl alcohol chitosan starch cellulose and protein A range of advanced applications are then introduced across 3D printing high entropy alloys wastewater remediation agriculture biomedicine solar cells electrochemical sensors and packaging Throughout the book opportunities for improved sustainability are analyzed and highlighted The final section brings this together with in depth coverage of biodegradation lifecycle environmental impact circular economy economic considerations and future opportunities in bionanocomposites This is a valuable resource for researchers advanced students R D professionals and industrial scientists from a range of disciplines Provides the latest cutting edge techniques for the synthesis processing and characterization of biopolymer based materials

Includes an approach to bionanocomposites from the perspective of environmental impact lifecycle and sustainability Opens the door to novel applications in areas such as 3D printing wastewater remediation agriculture and solar cells

Comprehensive Semiconductor Science and Technology, 2024-11-28 Semiconductors are at the heart of modern living Almost everything we do be it work travel communication or entertainment all depend on some feature of semiconductor technology Comprehensive Semiconductor Science and Technology Second Edition Three Volume Set captures the breadth of this important field and presents it in a single source to the large audience who study make and use semiconductor devices Written and edited by a truly international team of experts and newly updated to capture key advancements in the field this work delivers an objective yet cohesive review of the semiconductor world The work is divided into three sections fully updated and expanded from the first edition The first section is concerned with the fundamental physics of semiconductors showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low dimensional structure and further to a nanometer size Throughout this section there is an emphasis on the full understanding of the underlying physics especially quantum phenomena The second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of high purity or doped bulk and epitaxial materials with low defect density and well controlled electrical and optical properties The third section is devoted to design fabrication and assessment of discrete and integrated semiconductor devices It will cover the entire spectrum of devices we see all around us for telecommunications computing automation displays illumination and consumer electronics Provides a comprehensive global picture of the semiconductor world Written and Edited by an international team of experts Compiles the most important semiconductor knowledge into one comprehensive resource Moves from fundamentals and theory to more advanced knowledge such as applications allowing readers to gain a deeper understanding of the field Morphological, Compositional, and Shape Control of Materials for Catalysis Paolo Fornasiero, Matteo Cargnello, 2017-05-23 Morphological Compositional and Shape Control of Materials for Catalysis Volume 177 the latest in the Studies in Surface Science and Catalysis series documents the fast growing developments in the synthesis characterization and utilization of nanostructures for catalysis The book provides essential background on using well defined materials for catalysis and presents exciting new paradigms in the preparation and application of catalytic materials with an emphasis on how structure determines catalytic properties In addition the book uniquely features discussions on the future of the field with ample space for future directions detailed in each chapter Presents the latest paradigms in the preparation and application of catalytic materials Provides essential background on using well defined materials for catalysis Features discussion of future directions at the end of each chapter **Nanostructured Photocatalyst via Defect Engineering** Vitaly Gurylev, 2021-10-28 This book helps readers comprehend the principles and fundamentals of defect engineering toward realization of an efficient photocatalyst The volume consists of two parts each of which addresses a particulate type of

defects The first larger section provides a comprehensive and rigorous treatment of the behaviour and nature of intrinsic defects The author describes how their controlled introduction and consequent manipulation over concentration distribution nature and diffusion is one of the most effective and practical methodologies to modify the properties and characteristics of target photocatalytic materials The second part of the book explains the formation of extrinsic defects in the form of metallic and non metallic dopants and gives a detailed description of their characteristics as this approach is also often used to fabricate an efficient photocatalyst Filling the gap in knowledge on the correlation between introduction of defects in various semiconducting materials and their photocatalytic performance the book is ideal for graduate students academics and researchers interested in photocatalysts defect engineering clean energy hydrogen production nanoscale advanced functional materials CO2 deactivation and semiconductor engineering

Nanotechnology in Membrane Processes Kailash Chandra Khulbe, Takeshi Matsuura, 2021-01-09 Nanotechnology has been established in membrane technology for decades In this book comprehensive coverage is given to nanotechnology applications in synthetic membrane processes which are used in different fields such as water treatment separation of gases the food industry military use drug delivery air filtration and green chemistry Nanomaterials such as carbon nanotubes nanoparticles and dendrimers are contributing to the development of more efficient and cost effective water filtration processes Gas separation and carbon capture can be significantly improved in flue gas applications Nanoporous membrane systems engineered to mimic natural filtration systems are being actively developed for use in smart implantable drug delivery systems bio artificial organs and other novel nano enabled medical devices The microscopic structure of nanoporous ceramic membranes mainly focusing on zeolite materials as well as the energy saving effect of membrane separation contribute to various chemical synthesis processes In the food industry nanotechnology has the potential to create new tools for pathogen detection and packaging For each application nanotechnology is mostly used to make composite membranes and the book provides a detailed look at the mechanisms by which the composite membrane works in each application area

Metal Organic Frameworks as Heterogeneous Catalysts Francesc X. Llabrés i Xamena, Jorge Gascon (Profesor), 2013-07-01 This book examines the latest research and discovery in the use of MOFs in catalysis highlighting the extent to which these materials have been embraced by the community

Dissertation Abstracts International, 2008 *Electron-phonon Interactions in Low-dimensional Structures* Lawrence John Challis, 2003 The study of electrons and holes confined to two one and even zero dimensions has uncovered a rich variety of new physics and applications This book describes the interaction between these confined carriers and the optic and acoustic phonons within and around the confined regions Phonons provide the principal channel of energy transfer between the carriers and their surroundings and also the main restriction to their room temperature mobility But they have many other roles they provide for example an essential feature of the operation of the quantum cascade laser Since their momenta at relevant energies are well matched to those of electrons they can also be used to probe electronic properties such as the

confinement width of 2D electron gases and the dispersion curve of quasiparticles in the fractional quantum Hall effect The book describes both the physics of the electron phonon interaction in the different confined systems and the experimental and theoretical techniques that have been used in its investigation The experimental methods include optical and transport techniques as well as techniques in which phonons are used as the experimental probe The aim of the book is to provide an up to date review of the physics and its significance in device performance It is also written to be explanatory and accessible to graduate students and others new to the field

Nanoparticles Properties Classification, Characterization and Fabrication Mr. Rohit Manglik, 2024-07-29 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Theoretical and Computational Chemistry Editor's Pick 2024, 2nd edition Sam P. De Visser, Thomas S. Hofer, 2025-03-31 We are pleased to introduce the collection *Frontiers in Chemistry Theoretical and Computational Chemistry Editor's Pick 2024* This collection showcases most well received spontaneous articles from the past couple of years and have been specially handpicked by our Chief Editors The work presented here highlights the broad diversity of research performed across the section and aims to put a spotlight on the main areas of interest All research presented here displays strong advances in theory experiment and methodology with applications to compelling problems This collection aims to further support Frontiers strong community by recognizing highly deserving authors

Advanced Photonics with Second-Order Optically Nonlinear Processes A.D. Boardman, L. Pavlov, S. Tanev, 2012-12-06 Although it took some time to establish the word photonics is both widely accepted and used throughout the world and a major area of activity concerns nonlinear materials In these the nonlinearity mainly arises from second order or third order nonlinear optical processes A restriction is that second order processes only occur in media that do not possess a centre of symmetry Optical fibres on the other hand being made of silica glass created by fusing SiO₂ molecules are made of material with a centre of z symmetry so the bulk of all processes are governed by third order nonlinearity Indeed optical fibre nonlinearities have been extensively studied for the last thirty years and can be truly hailed as a success story of nonlinear optics In fact the fabrication of such fibres and the exploitation of their nonlinearity is in an advanced stage not least being their capacity to sustain envelope solitons What then of second order nonlinearity This is also well known for its connection to second harmonic generation It is an immediate concern however to understand how waves can mix and conserve both energy and momentum of the photons involved The problem is that the wave vectors cannot be made to match without a great deal of effort or at least some clever arrangement has to be made a special geometry or crystal arrangement The whole business is called phase matching and an inspection of the state of the art today reveals the subject to be in an advanced state

Scientific and Technical Aerospace Reports, 1995

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