

OPTOELECTRONIC PROPERTIES of SEMICONDUCTORS and SUPERLATTICES

M. O. Manasreh, series editor

Volume 11

DEFECTS IN OPTOELECTRONIC MATERIALS

Edited by

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and

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CRC Press
Taylor & Francis Group

Defects In Optoelectronic Materials

P. Predeep



Defects In Optoelectronic Materials:

Defects in Optoelectronic Materials Kazumi Wada, 2001-11-06 Defects in Optoelectronic Materials bridges the gap between device process engineers and defect physicists by describing current problems in device processing and current understanding of these defects based on defect physics The volume covers defects and their behaviors in epitaxial growth in various processes such as plasma processing deposition and implantation and in device degradation This book also provides graduate students cutting edge information on devices and materials interaction Materials for Optoelectronics Maurice Quillec, 1996-01-31 Optoelectronics ranks one of the highest increasing rates among the different industrial branches This activity is closely related to devices which are themselves extremely dependent on materials Indeed the history of optoelectronic devices has been following closely that of the materials KLUWER Academic Publishers has thus rightly identified Materials for Optoelectronics as a good opportunity for a book in the series entitled Electronic Materials Science and Technology Although a sound background in solid state physics is recommended the authors have confined their contribution to a graduate student level and tried to define any concept they use to render the book as a whole as self consistent as possible In the first section the basic aspects are developed Here three chapters consider semiconductor materials for optoelectronics under various aspects Prof G E Stillman begins with an introduction to the field from the point of view of the optoelectronic market Then he describes how III V materials especially the Multi Quantum Structures meet the requirements of optoelectronic functions including the support of microelectronics for optoelectronic integrated circuits In chapter 2 Prof *Semiconductor Materials for Optoelectronics and LTMBE Materials* J.P. Hirtz, C. Whitehouse, H.P. Meier, H.J. von Bardeleben, M.O. Manasreh, 2016-07-29 These three day symposia were designed to provide a link between specialists from university or industry who work in different fields of semiconductor optoelectronics Symposium A dealt with topics including epitaxial growth of III V II VI IV VI Si based structures selective area localized and non planar epitaxy shadow mask epitaxy bulk and new optoelectronic materials polymers for optoelectronics Symposium B dealt with III V epitaxial layers grown by low temperature molecular beam epitaxy a subject which has undergone rapid development in the last three years *Semiconductors and Semimetals*, 1985-03-28 Semiconductors and Semimetals *Defects in Microelectronic Materials and Devices* Daniel M. Fleetwood, Ronald D. Schrimpf, 2008-11-19 Uncover the Defects that Compromise Performance and Reliability As microelectronics features and devices become smaller and more complex it is critical that engineers and technologists completely understand how components can be damaged during the increasingly complicated fabrication processes required to produce them A comprehensive survey of defe Surface Defects in Wide-Bandgap LiF, SiO₂, and ZnO Crystals Utkirjon Sharopov, 2024-05-27 This book deals with surface defects in wide bandgap crystals of lithium fluoride silicon dioxide and zinc oxide Encompassing topics such as radiation induced amorphization crystallization and various microstructural developments arising from defect production and annealing the

book delves into controlled modifications of physical and chemical properties micro and nano structuring of surfaces and the creation and behavior of structures far from thermal equilibrium including supersaturated solid solutions ion tracks and surfaces treated with electron and high intensity ion beams Beyond its relevance to the academic community this monograph serves as a valuable resource for design and installation organizations offering insights for specialists involved in the development of modern new and energy efficient innovative materials The applicability extends to traditional silicon energy and semiconductor electronics providing practical knowledge for professionals engaged in these fields Additionally the work is of significance to a broad spectrum of specialists and managers in various organizations involved in the development of lithium ion batteries for energy storage systems especially those employing cutting edge high performance materials As a comprehensive reference in materials science this monograph caters to a diverse audience engaged in the ongoing advancements and applications within this dynamic field It is suitable for scientific and engineering professionals as well as researchers specializing in materials science physics semiconductors photovoltaics defects engineering laser technology solid state physics and beam enhanced synthesis and modification of materials

Insulating Materials for Optoelectronics F. Agulló-López, 1995 This review volume presents new developments in the preparation physical characterization and applications of insulating materials for Optoelectronics Insulators occupy a leading position as laser and optical amplifier hosts electrooptic and acoustooptic modulators frequency doublers and optical parametric oscillators photorefractive devices and radiator detectors These applications rely heavily on the development of advanced techniques for the preparation of both bulk and waveguide structures the adequate knowledge of the microscopic behaviour defects impurities and a thorough understanding of their response to electromagnetic fields All these topics relating basic physicochemical aspects and applied performance are authoritatively discussed in the book

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

Advanced Calculations for Defects in Materials Audrius Alkauskas, Peter Deák, Jörg Neugebauer, Alfredo Pasquarello, Chris G. Van de Walle, 2011-05-16 This book investigates the possible ways of improvement by applying more sophisticated

electronic structure methods as well as corrections and alternatives to the supercell model In particular the merits of hybrid and screened functionals as well as of the U methods are assessed in comparison to various perturbative and Quantum Monte Carlo many body theories The inclusion of excitonic effects is also discussed by way of solving the Bethe Salpeter equation or by using time dependent DFT based on GW or hybrid functional calculations Particular attention is paid to overcome the side effects connected to finite size modeling The editors are well known authorities in this field and very knowledgeable of past developments as well as current advances In turn they have selected respected scientists as chapter authors to provide an expert view of the latest advances The result is a clear overview of the connections and boundaries between these methods as well as the broad criteria determining the choice between them for a given problem Readers will find various correction schemes for the supercell model a description of alternatives by applying embedding techniques as well as algorithmic improvements allowing the treatment of an ever larger number of atoms at a high level of sophistication

Defects and Diffusion in Ceramics V David Fisher,2003-08-08 An Annual Retrospective V *2D Semiconducting Materials for Electronic, Photonic, and Optoelectronic Devices* Anuj Kumar,Ram K. Gupta,2024-11-07 Two dimensional semiconducting materials 2D SCMs are the subject of intensive study in the fields of photonics and optoelectronics because of their unusual optical electrical thermal and mechanical properties The main objective of 2D Semiconducting Materials for Electronic Photonic and Optoelectronic Devices is to provide current state of the art knowledge of two dimensional semiconducting materials for various applications Two dimensional semiconducting materials are the basic building blocks for making photodiodes light emitting diodes light detecting devices data storage telecommunications and energy storage devices When it comes to two dimensional semiconducting materials electronic photonic and optoelectronic applications as well as future plans for improving performance no modern book covers as much ground The planned book will fill such gaps by offering a comprehensive analysis of two dimensional semiconducting materials This book covers a range of advanced 2D materials their fundamentals and the chemistry for many emerging applications All the chapters are covered by experts in these areas around the world making this a suitable textbook for students and providing new guidelines to researchers and industries Covers topics such as fundamentals and advanced knowledge of two dimensional semiconducting materials Provides details about the recent methods used for the synthesis characterization and applications of two dimensional semiconducting materials Covers the state of the art development in two dimensional semiconducting materials and their emerging applications This book provides directions to students scientists and researchers in semiconductors and related disciplines to help them better understand the physics characteristics and applications of 2D semiconductors *Surface and Interfacial Defects in Nanomaterials for Sustainable Energy Production and Storage* Noe Arjona,Lorena Alvarez Conteras,Minerva Guerra Balcazar,2026-01-20 Comprehensive reference on surface and interfacial defects reviewing energy production and storage as well as numerous applications Surface and Interfacial Defects in Nanomaterials for Sustainable Energy Production

and Storage covers novel aspects involving important electrocatalytic reactions based on defects and interface engineering on nanomaterials providing a comprehensive exposition on various energy aspects More than a collection of current advances this work articulates a scientific vision in which atomic level control of matter is no longer optional but essential to achieving significant improvements in efficiency durability and sustainability By integrating emerging knowledge across disciplines this volume sets the stage for a new paradigm in materials science where structural imperfections become a tool and the interface becomes a platform for innovation After providing the fundamentals of electrocatalysis and classical electrocatalysis this book introduces defect and interface engineering theory as a new method to achieve high performance It discusses the analysis on energy production and storage based on recent findings and perspectives and reviews prospects for future development Surface and Interfacial Defects in Nanomaterials for Sustainable Energy Production and Storage explores sample topics including Types formation and impact of surface defects and interfacial defects Advanced characterization techniques computational modeling and defect healing and control strategies Heterojunction hybrid catalysts for hydrogen production Various applications including fuel production fuel cells electrolyzers oxygen reduction and Li ion Na ion K ion Li air and Zinc air batteries Performance enhancement in metal oxide based electrochemical supercapacitors Integrating knowledge across related fields in a cohesive manner Surface and Interfacial Defects in Nanomaterials for Sustainable Energy Production and Storage offers a comprehensive understanding of the subject for materials scientists and chemists across various disciplines

Optoelectronics P. Predeep, 2011-09-26 Optoelectronics Materials and Techniques is the first part of an edited anthology on the multifaceted areas of optoelectronics by a selected group of authors including promising novices to the experts in the field Photonics and optoelectronics are making an impact multiple times the semiconductor revolution made on the quality of our life In telecommunication entertainment devices computational techniques clean energy harvesting medical instrumentation materials and device characterization and scores of other areas of R

Defects and Surface-Induced Effects in Advanced Perovskites Gunnar Borstel, Andris Krumins, Donats Millers, 2012-12-06 Complex oxide materials especially the ABO₃ type perovskite materials have been attracting growing scientific interest due to their unique electro optical properties leading to photorefractive effects that form the basis for such devices as holographic storage optical data processing and phase conjugation The optical and mechanical properties of non metals are strongly affected by the defects and impurities that are unavoidable in any real material Nanoscopically sized surface effects play an important role especially in multi layered ABO₃ structures which are good candidates for high capacity memory cells The 51 papers presented here report the latest developments and new results and will greatly stimulate progress in high tech technologies using perovskite materials

GNSR 2001 Giacomo Messina, Saveria Santangelo, 2002 Annotation Optical spectroscopy represents one of the most powerful and useful investigation tools Due to the broad range of applications in scientific and technological Research its potential is very great Among the large variety of

its branches a leading role is played by Raman spectroscopy that allowing the non destructive material characterisation is the most widely utilised diagnostic tool in Research laboratories An encounter opportunity for Researchers working in the Spectroscopy field is offered by the Conference organised by the National Group of Raman Spectroscopy and non linear effects GNSR The GNSR Meeting represents an appointment usually recurring every two years Its main purpose is to act as a common forum for Spectroscopists where the most recent and relevant Italian results and applications are presented The GNSR Conference hence constitutes an opportunity for a stimulating exchange of ideas and experiences among the members of the lively Scientific Community involved including a variety of Scientists such as Physicists Chemists Engineers Architects Historians of Art active in the field of Raman spectroscopy and non linear effects Offering the possibility of both divulging assessed results and exploring the feasibility of new projects the GNSR Meeting promotes the advancement of Raman spectroscopy and related techniques not only in Research but also in Industry and Education **Radiation Defect**

Engineering Abrosimova Vera,Vitali V Kozlovski,2005-11-17 The increasing complexity of problems in semiconductor electronics and optoelectronics has exposed the insufficient potential of the technological doping processes currently used One of the most promising techniques which this book explores is radiation doping the intentional directional modification of the properties of semiconductors under the action of various types of radiation The authors consider the basic principles of proton interactions with single crystal semiconductors on the basis of both theory as well as practical results All types of proton modifications of the materials known presently are analyzed in detail and exciting new fields of research in this direction are discussed *Semiconductor Device Physics and Design* Umesh Mishra,Jasprit Singh,2007-11-06

Semiconductor Device Physics and Design teaches readers how to approach device design from the point of view of someone who wants to improve devices and can see the opportunity and challenges It begins with coverage of basic physics concepts including the physics behind polar heterostructures and strained heterostructures The book then details the important devices ranging from p n diodes to bipolar and field effect devices By relating device design to device performance and then relating device needs to system use the student can see how device design works in the real world Advanced Materials

for Next-Generation Technologies Shrikaant Kulkarni,Vipul Srivastava,Rabah Khenata,Yarub Al-Douri,2025-09-12 Advanced materials exhibiting novel properties with increased functionality are the future of technology These materials have the potential to improve people s quality of life as well as to make affordable sustainable materials a reality The book details advanced novel materials for applications in frontier areas discussing perovskites as promising materials for the future technology It also discusses synthesis protocols for the design and development of some novel materials spinel material synthesis and its structural analysis green synthesis of metal oxides the property profiles of the materials for behavioral change and more *Defect Recognition and Image Processing in Semiconductors 1997* J. Doneker,I.

Rechenberg,2017-11-22 *Defect Recognition and Image Processing in Semiconductors 1997* provides a valuable overview of

current techniques used to assess monitor and characterize defects from the atomic scale to inhomogeneities in complete silicon wafers This volume addresses advances in defect analyzing techniques and instrumentation and their application to substrates epilayers and devices The book discusses the merits and limits of characterization techniques standardization correlations between defects and device performance including degradation and failure analysis and the adaptation and application of standard characterization techniques to new materials It also examines the impressive advances made possible by the increase in the number of nanoscale scanning techniques now available The book investigates defects in layers and devices and examines the problems that have arisen in characterizing gallium nitride and silicon carbide **Defect**

Engineering of Carbon Nanostructures Sumanta Sahoo,Santosh Kumar Tiwari,Ashok Kumar Das,2022-03-19 This book presents an analysis of the techniques used for the synthesis of innovative functional carbon nanostructures The chapters describe the research and development of various layered carbon nanostructures Emphasis is given to the impact of defects on carbon nanostructures The application of carbon nanostructured materials in biomedical field and energy storage is described

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