

Photoinduced Defects in Semiconductors

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CAMBRIDGE STUDIES IN
SEMICONDUCTOR PHYSICS AND
MICROELECTRONIC ENGINEERING

Photo Induced Defects In Semiconductors

**David Ferry, Stephen Marshall
Goodnick**



Photo Induced Defects In Semiconductors:

Photo-induced Defects in Semiconductors David Redfield, Richard H. Bube, 2006-03-09 This book gives a complete overview of the properties of deep level localized defects in semiconductors. Such comparatively long lived or metastable defects exhibit complex interactions with the surrounding material and can significantly affect the performance and stability of certain semiconductor devices. After an introductory discussion of metastable defects, the authors present properties of DX and EL2 centers in III-V compounds. They also deal with additional crystalline materials before giving a detailed description of the properties and kinetics of photo induced defects in amorphous semiconductors. The book closes with an examination of the effects of photo induced defects in a range of practical applications. The book will be of great use to graduate students and researchers interested in the physics and materials science of semiconductors. *Photo-induced Defects in Semiconductors*

David Redfield, Richard H. Bube, 1996-01-26 This is the first book to give a complete overview of the properties of deep level localized defects in semiconductors. Such comparatively long lived or metastable defects exhibit complex interactions with the surrounding material and can significantly affect the performance and stability of certain semiconductor devices. After an introductory discussion of metastable defects, the properties of DX and EL2 centres in III-V compounds are presented. Additional crystalline materials are also dealt with before a detailed description is given of the properties and kinetics of photo induced defects in amorphous semiconductors. The book closes with an examination of the effects of photo induced defects in a range of practical applications. Throughout unifying concepts and models are stressed and the book will be of great use to graduate students and researchers interested in the physics and materials science of semiconductors. **Photo-Induced Metastability in Amorphous Semiconductors**

Alexander V. Kolobov, 2006-12-13 A review summarising the current state of research in the field bridging the gaps in the existing literature. All the chapters are written by world leaders in research and development and guide readers through the details of photo induced metastability and the results of the latest experiments and simulations not found in standard monographs on this topic. A useful reference not only for graduates but also for scientific and industrial researchers. With a foreword of Kazunobu Tanaka.

Light-Induced Defects in Semiconductors Kazuo Morigaki, Harumi Hikita, Chisato Ogiwara, 2014-09-13 This book covers electronic and structural properties of light induced defects, light induced defect creation processes and related phenomena in crystalline, amorphous and microcrystalline semiconductors. It provides a theoretical treatment of recombination enhanced defect reaction in crystalline semiconductors, particularly GaAs and related materials. It also discusses experimental evidence for this phenomenon. Light induced defect creation in hydrogenated amorphous silicon (a-Si:H) is described in more detail, including its mechanism and experimental results. The subjects treated by the book are important issues from the viewpoints of physics and applications. **Amorphous Chalcogenide Semiconductors and Related Materials**

Keiji Tanaka, Koichi Shimakawa, 2021-07-01 This book provides introductory, comprehensive and concise

descriptions of amorphous chalcogenide semiconductors and related materials It includes comparative portraits of the chalcogenide and related materials including amorphous hydrogenated Si oxide and halide glasses and organic polymers It also describes effects of non equilibrium disorder in comparison with those in crystalline semiconductors

Semiconductor Material and Device Characterization Dieter K. Schroder, 2015-06-29 This Third Edition updates a landmark text with the latest findings The Third Edition of the internationally lauded Semiconductor Material and Device Characterization brings the text fully up to date with the latest developments in the field and includes new pedagogical tools to assist readers Not only does the Third Edition set forth all the latest measurement techniques but it also examines new interpretations and new applications of existing techniques Semiconductor Material and Device Characterization remains the sole text dedicated to characterization techniques for measuring semiconductor materials and devices Coverage includes the full range of electrical and optical characterization methods including the more specialized chemical and physical techniques Readers familiar with the previous two editions will discover a thoroughly revised and updated Third Edition including Updated and revised figures and examples reflecting the most current data and information 260 new references offering access to the latest research and discussions in specialized topics New problems and review questions at the end of each chapter to test readers understanding of the material In addition readers will find fully updated and revised sections in each chapter Plus two new chapters have been added Charge Based and Probe Characterization introduces charge based measurement and Kelvin probes This chapter also examines probe based measurements including scanning capacitance scanning Kelvin force scanning spreading resistance and ballistic electron emission microscopy Reliability and Failure Analysis examines failure times and distribution functions and discusses electromigration hot carriers gate oxide integrity negative bias temperature instability stress induced leakage current and electrostatic discharge Written by an internationally recognized authority in the field Semiconductor Material and Device Characterization remains essential reading for graduate students as well as for professionals working in the field of semiconductor devices and materials An Instructor s Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department

Photo-induced Space Charge Effects in Semiconductors D. D. Nolte, N. M. Haegel, K. W. Goossen, 1992 Thin Film Materials And Devices: Developments In Science And Technology: Proceedings Of The Tenth International School J M Marshall, Nikolav Kirov, Alexander Vavrek, J M Maud, 1999-06-01 This volume constitutes the proceedings of the tenth meeting of the International school on Condensed Matter Physics Since 1980 this community of condensed matter scientists has gathered in Varna Bulgaria every two years to review and discuss the development of various investigations in the field to present the latest results and to outline the most important trends in condensed matter science The book reflects the development of the field and points to the growing interest in the application of theoretical achievements and to the mutual inspirations of science and technology **Semiconductors for Photocatalysis**, 2017-06-30 Semiconductors for

Photocatalysis Volume 97 covers the latest breakthrough research and exciting developments in semiconductor photocatalysts and electrodes for water splitting and CO₂ reduction. It includes a broad range of materials such as metal oxides, metal nitrides, silicon III-V semiconductors and the emerging layered compounds. New to this volume are chapters covering the Fundamentals of Semiconductor Photoelectrodes, Charge Carrier Dynamics in Metal Oxide Photoelectrodes for Water Oxidation, Photophysics and Photochemistry at the Semiconductor Electrolyte Interface for Solar Water Splitting, V-Semiconductor Photoelectrodes, III-Nitride Semiconductor Photoelectrodes and Rare Earth Containing Materials for Photoelectrochemical Water Splitting Applications. In addition, the design and modeling of photocatalysts and photoelectrodes and the fundamental mechanisms of water splitting and CO₂ reduction is also discussed. Features the latest breakthroughs and research and development in semiconductor photocatalysis, solar fuels and artificial photosynthesis. Covers a broad range of topics including a wide variety of materials and many important aspects of solar fuels. Includes in-depth discussions on materials design, growth and synthesis, engineering, characterization and photoelectrochemical studies. *SERI Photovoltaic Advanced Research and Development Bibliography, 1982-1985, 1986*

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. *Disordered Semiconductors, Second Edition* Anatoly Popov, 2018-08-01. Devices based on disordered semiconductors have wide applications. It is difficult to imagine modern life without printers and copiers, LCD monitors and TVs, optical disks, economical solar cells and many other devices based on disordered semiconductors. However, nowadays books that discuss disordered, amorphous, nanocrystalline, microcrystalline *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 *Transport in Nanostructures* David Ferry, Stephen Marshall Goodnick, 1999-10-28 A comprehensive detailed description of the properties and behaviour of mesoscopic devices

Optical Processes in Semiconductors Jacques I. Pankove, 2012-12-19 Comprehensive text and reference covers all phenomena involving light in semiconductors emphasizing modern applications in semiconductor lasers electroluminescence photodetectors photoconductors photoemitters polarization effects absorption spectroscopy more Numerous problems 339 illustrations **Halide Perovskite Semiconductors** Yuanyuan Zhou, Ivan Mora-Sero, 2023-12-22 Halide Perovskite Semiconductors Enables readers to acquire a systematic and in depth understanding of various fundamental aspects of halide perovskite semiconductors Halide Perovskite Semiconductors Structures Characterization Properties and Phenomena covers the most fundamental topics with regards to halide perovskites including but not limited to crystal defect theory crystal chemistry heterogeneity grain boundaries single crystals thin films nanocrystals synthesis photophysics solid state ionics spin physics chemical in stability carrier dynamics hot carriers surface and interfaces lower dimensional structures and structural functional characterizations Included discussions on the fundamentals of halide perovskites aim to expand the basic science fields of physics chemistry and materials science Edited by two highly qualified researchers Halide Perovskite Semiconductors includes specific information on Crystal defect theory of halide perovskites crystal chemistry of halide perovskites and processing and microstructures of halide perovskites Single crystals of halide perovskites nanocrystals of halide perovskites low dimensional perovskite crystals and nanoscale heterogeneity of halide perovskites Carrier mobilities and dynamics in halide perovskites light emission of halide perovskites photophysics and ultrafast spectroscopy of halide perovskites Hot carriers in halide perovskites correlating photophysics with microstructures in halide perovskites chemical stability of halide perovskites and solid state ionics of halide perovskites Readers can find solutions to technological issues and challenges based on the fundamental knowledge gained from this book As such Halide Perovskite Semiconductors is an essential in depth treatment of the subject ideal for solid state chemists materials scientists physical chemists inorganic chemists physicists and semiconductor physicists **Glass Nanocomposites** Basudeb Karmakar, Klaus Rademann, Andrey Stepanov, 2016-01-19 Glass Nanocomposites Synthesis Properties and Applications provides the latest information on a

rapidly growing field of specialized materials bringing light to new research findings that include a growing number of technologies and applications. With this growth a new need for deep understanding of the synthesis methods, composite structure, processing and application of glass nanocomposites has emerged. In the book, world renowned experts in the field, Professors Karmakar, Rademann and Stepanov, fill the knowledge gap, building a bridge between the areas of nanoscience, photonics and glass technology. The book covers the fundamentals: synthesis, processing, material properties, structure, property correlation, interpretation thereof, characterization and a wide range of applications of glass nanocomposites in many different devices and branches of technology. Recent developments and future directions of all types of glass nanocomposites such as metal glasses, e.g. metal nanowire composites, nanoglass, mesoporous silica composites, semiconductor glass and ceramic glass nanocomposites as well as oxide and non oxide glasses are also covered in great depth. Each chapter is logically structured in order to increase coherence with each including question sets as exercises for a deeper understanding of the text. Provides comprehensive and up to date knowledge and literature review for both the oxide and non oxide glass nanocomposites, i.e. practically all types of glass nanocomposites. Reviews a wide range of synthesis types, properties, characterization and applications of diverse types of glass nanocomposites. Presents future directions of glass nanocomposites for researchers and engineers as well as question sets for use in university courses.

Physics and Applications of Non-Crystalline Semiconductors in Optoelectronics A. Andriesh, M. Bertolotti, 2012-12-06. The Workshop on Physics and Application of Non crystalline Semiconductors in Optoelectronics was held from 15 to 17 October 1996 in Chisinau, republic of Moldova and was devoted to the problems of non crystalline semiconducting materials. The reports covered two main topics: theoretical basis of physics of non crystalline materials and experimental results. In the framework of these major topics there were treated many subjects concerning the physics of non crystalline semiconductors and their specific application: optical properties of non crystalline semiconductors, doping of glassy semiconductors and photoinduced effects in chalcogenide glasses and their application for practical purposes, methods for investigation of the structure in non crystalline semiconductors, new glassy materials for IR transmittance and optoelectronics. Reports and communications were presented on various aspects of the theory, new physical principles, studies of the atomic structure, search and development of optoelectronics devices. Special attention was paid to the actual subject of photoinduced transformations and its applications. Experimental investigations covered a rather wide spectrum of materials and physical phenomena. As a novel item it is worth to mention the study of nonlinear optical effects in amorphous semiconducting films. The third order optical nonlinearities, fast photoinduced optical absorption and refraction, acousto-optic effects recently discovered in non crystalline semiconductors could potentially be utilised for optical signal processing. The important problems of photoinduced structural transformations and related phenomena which are very attractive and actual both from the scientific and practical points of view received much attention in discussions at the conference.

Point Defects in

Group IV Semiconductors S. Pizzini, 2017-04-05 A self consistent model of point defects requires a reliable connection with the experimentally deduced structural spectroscopic and thermodynamic properties of the defect centres to allow their unambiguous identification This book focuses on the properties of defects in group IV semiconductors and seeks to clarify whether full knowledge of their chemical nature can account for several problems encountered in practice It is shown how difficult the fulfilment of self consistency conditions can be even today after more than four decades of dedicated research work especially in the case of compound semiconductors such as SiC but also in the apparently simple cases of silicon and germanium The reason for this is that the available microscopic models do not yet account for defect interactions in real solids

Electronic Devices, Circuits, and Systems for Biomedical Applications Suman Lata Tripathi, Kolla Bhanu Prakash, Valentina Emilia Balas, Sushanta Kumar Mohapatra, Janmenjoy Nayak, 2021-04-28 Electronic Devices Circuits and Systems for Biomedical Applications Challenges and Intelligent Approaches explains the latest information on the design of new technological solutions for low power high speed efficient biomedical devices circuits and systems The book outlines new methods to enhance system performance provides key parameters to explore the electronic devices and circuit biomedical applications and discusses innovative materials that improve device performance even for those with smaller dimensions and lower costs This book is ideal for graduate students in biomedical engineering and medical informatics biomedical engineers medical device designers and researchers in signal processing Presents major design challenges and research potential in biomedical systems Walks readers through essential concepts in advanced biomedical system design Focuses on healthcare system design for low power efficient and highly secured biomedical electronics

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