

**Semiconductor Defect
Engineering—
Materials, Synthetic
Structures and Devices II**

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Semiconductor Defect Engineering: Volume 864 S. Ashok,J. Chevallier,B. L. Sopori,M. Tabe,P. Kiesel,2014-06-05

This book first published in 2005 explores the deliberate introduction and manipulation of defects and impurities for the purpose of engineering desired properties in semiconductor materials and devices The presentations are grouped around the distinct topics of materials processing and devices The papers on grown in defects in bulk crystals deal with overviews of intrinsic and impurity related defects and their influence on electrical optical and mechanical properties as well as the use of impurities to arrest certain types of defects during growth and defects to control growth Most of the papers deal with dopant and defect issues relevant to widegap semiconductors The scope of defect and impurity engineering is far ranging as exemplified by phase and morphological stability of silicides interface control and passivation and application of ion implantation plasma treatment and rapid thermal processing for creating activating suppressing trap levels Papers in these areas are also found in the book

Semiconductor Defect Engineering: Volume 994 S. Ashok,J. Chevallier,P. Kiesel,T. Ogino,2014-06-05 This book first published in 2007 focuses on the application of defects and impurities in current and emerging semiconductor technologies The role of defects in the evolution of semiconductor technology is now recognized as one of refined control in density properties spatial location and perhaps even temporal variation during device operating lifetime The concept of defect engineering has found numerous applications in the fabrication of semiconductors and devices with improved and or new properties and new trends extend defect engineering in structures with nm dimensions This book shows interaction among researchers pursuing effective use of defect incorporation and control at various facets of technology and widely different semiconductor materials systems Topics include dopant and defect issues in oxide and nitride semiconductors defect properties activation and passivation defects in nanostructures and organic semiconductors ion implantation and beam processing defect characterization heterojunctions and interfaces process induced defects dopants and defects in group IV semiconductors and defects in devices

Semiconductor Radiation Detectors Alan

Owens,2019-05-31 Choice Recommended Title July 2020 Bringing together material scattered across many disciplines Semiconductor Radiation Detectors provides readers with a consolidated source of information on the properties of a wide range of semiconductors their growth characterization and the fabrication of radiation sensors with emphasis on the X and gamma ray regimes It explores the promise and limitations of both the traditional and new generation of semiconductors and discusses where the future in semiconductor development and radiation detection may lie The purpose of this book is two fold firstly to serve as a text book for those new to the field of semiconductors and radiation detection and measurement and secondly as a reference book for established researchers working in related disciplines within physics and engineering Features The only comprehensive book covering this topic Fully up to date with new developments in the field Provides a wide ranging source of further reference material

Semiconductor Defect Engineering: Volume 994 S.

Ashok,2007-09-10 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners This book first published in 2007 focuses on the application of defects and impurities in current and emerging semiconductor technologies Photoconductivity and Photoconductive Materials, 2 Volume Set Safa O.

Kasap,2022-06-27 Dieses wichtige Referenzwerk behandelt die grundlegenden Konzepte der Photoleitfähigkeit und der photoleitenden Materialien Mit Photoconductivity and Photoconductive Materials präsentiert Professor Kasap eine maßgebliche Zusammenstellung der wesentlichen Grundsätze der Photoleitfähigkeit und stellt eine Auswahl aktueller photoleitfähiger Materialien vor Der erste Band des zweibändigen Werks beginnt mit einer Darstellung der grundlegenden Konzepte und Definitionen Es folgt eine Charakterisierung der verschiedenen Techniken auf Grundlage von stationärer transienter und modulierter Photoleitfähigkeit und der neuen Methode der Ladungsextraktion durch linear steigende Spannung CELIV Auch die Physik der Terahertz Photoleitfähigkeit sowie die Grundlagen der organischen Halbleiter LSOI werden behandelt Der zweite Band beginnt mit einem umfassenden Überblick über eine Vielzahl unterschiedlicher photoleitfähiger Materialien wobei der Schwerpunkt auf einige der wichtigsten Photoleiter gelegt wird darunter hydriertes amorphes Silizium Cadmium Quecksilber Tellurid verschiedene Röntgenphotoleiter Diamantfilme Metallhalogenidperowskite Nanodrähte und Quantenpunkte Auch die Anwendungen der photoleitenden Antenne werden erörtert Das Werk das zahlreiche Beiträge führender Autoren auf diesem Fachgebiet enthält bietet den Leserinnen und Lesern außerdem eine gründliche Einführung in die Charakterisierung von Halbleitern mit Hilfe von Techniken der Photoleitfähigkeit insbesondere gleichmäßiger Beleuchtung und Phototransistor Gittertechniken Eine umfassende Darstellung organischer Photoleiter mitsamt Informationen zu Photoerzeugung Transport und Anwendungen im Druckbereich Praktische Erörterungen der transienten Lichtleitfähigkeit im Flugzeitverfahren inklusive Experimentiertechniken und Interpretationshinweisen Eine eingehende Betrachtung der transienten Photoleitfähigkeit organischer Halbleiterschichten und neuartiger Techniken der transienten Photoleitfähigkeit Photoconductivity and Photoconductive Materials ist nicht nur ein wichtiges Referenzwerk für Physiker in der Forschung Materialwissenschaftler und Elektroingenieure sondern auch ein unverzichtbares Nachschlagewerk für Doktoranden und Studierende aller Semester die sich mit dem Bereich der optoelektronischen Materialien beschäftigen sowie für Forschende in der Industrie Ein umfassendes zweibändiges Werk mit Beiträgen führender Fachautoren herausgegeben von einem angesehenen Forscher auf dem Gebiet der Photoleitfähigkeit *Semiconductor Defect Engineering: Volume 864* S.

Ashok,J. Chevallier,B. L. Sopori,M. Tabe,P. Kiesel,2005-07-29 This book first published in 2005 explores the deliberate introduction and manipulation of defects and impurities for the purpose of engineering desired properties in semiconductor materials and devices The presentations are grouped around the distinct topics of materials processing and devices The papers on grown in defects in bulk crystals deal with overviews of intrinsic and impurity related defects and their influence on electrical optical and mechanical properties as well as the use of impurities to arrest certain types of defects during

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Microelectronics Technology and Devices ,2005 *American Book Publishing Record* ,2006 Gettering and Defect Engineering in Semiconductor Technology ... ,2005 **High Purity Silicon 9** Cor L. Claeys,2006 This issue discusses the latest developments in the growth characterization device processing and applications of high purity silicon in either bulk or epitaxial form Information is given on the control and prevention of impurity incorporation characterization and detection of defects and impurity states Device and circuit aspects are also covered Advanced substrates such as SOI strained Si and germanium on insulator are discussed Progress in Semiconductor Materials V: Volume 891 Linda J. Olafsen,2006-06-28 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners *Materials and Devices for Smart Systems* ,2005 *Life Cycle Analysis Tools for 'Green' Materials and Process Selection: Volume 895* Stella Papasavva,Vasilis Fthenakis,2006-03-21 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners **Materials and Devices for Smart Systems II: Volume 888** Yasubumi Furuya,2006-04-07 Smart intelligent systems is a primary technology for present and future applications in areas ranging from everyday life to aerospace missions from civil to military environments from robots to information technology Smart materials are the critical foundation for high performance smart devices and smart devices are fundamental components for smart systems The three cannot be separated This book bridges the fields of smart materials sensing and actuating devices and intelligent systems and provides an opportunity for researchers from all three arenas to channel information into a coherent interdisciplinary community Topics include piezoelectric actuators novel devices and systems shape memory alloys and magnetostrictive devices nanometer scale processing and properties piezoelectric materials sensor materials and devices and electroactive polymer actuators *Materials, Integration and Technology for Monolithic Instruments: Volume 869* Jeremy A. Theil,2005-07-28 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners Thin-Film Compound Semiconductor Photovoltaics - 2007: Volume 1012 Timothy Gessert,2007-11-14 Thin film compound semiconductor photovoltaic solar cells have demonstrated efficiencies of nearly 20% and are leading candidates to provide lower cost energy due to potential advantages in manufacturing and materials costs To fulfill the promise a number of technical issues are being addressed including a lack of fundamental understanding of these unique materials devices and processes for large area deposition This book focuses on advances in the materials science chemistry processing and device issues of thin film compound semiconductor materials that are used or have potential use in photovoltaic solar cells and

related applications Topics include growth and performance of compound thin film solar cells novel materials and processes defects and impurities industrial perspectives contacts and interfaces grain boundaries and inhomogeneities and structural optical and electronic characterization Thin Films--stresses and Mechanical Properties XI Materials Research Society. Meeting,2005 **Amorphous and Nanocrystalline Silicon Science and Technology ...** ,2005 *Amorphous and Nanocrystalline Silicon Science and Technology 2005: Volume 862* Robert W. Collins,2005-09-30 This book continues the long standing and highly successful series on amorphous silicon science and technology The opening article honors the pioneering use of photons to probe silicon films and provides an historical overview of optical absorption for studies of the Urbach edge and disorder Additional invited presentations focus on new approaches for the fabrication of higher stability amorphous silicon based materials and solar cells and on the characterization of materials and cells both structurally and electronically The book includes topics relevant to solar cells including the role of hydrogen in metastability phenomena and deposition processes and the application of atomistic material simulations in elucidating film growth mechanisms and structure as characterized by in situ probes Chapters are devoted to nanostructures such as quantum dots and wires and to nano microcrystalline and poly single crystalline films the latter involving new concepts in crystalline grain growth and epitaxy Device applications are also highlighted such as thin film transistors solar cells and image sensors operable on the meter scale to memories operable on the nanometer scale Materials, Technology and Reliability for Advanced Interconnects 2005: Volume 863 Paul R. Besser,2005-08-26 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners This volume was first published in 2005

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