

Electronic defects in oxides

- **Atomic (point) defects**
 - type, properties depend on position !
- **Electronic defects**
 - type, properties depend on energy levels available for the electrons
- **electrons**
- **positive holes**

Defects In Electronic Materials Ii

Thien-Phap Nguyen



Defects In Electronic Materials II:

Defects in Electronic Materials II: Volume 442 Jürgen Michel, 1997-05-02 The pervasive role of defects in determining the thermal mechanical electrical optical and magnetic properties of materials is significant as is the knowledge and operation of generation and control of defects in electronic materials Developing novel semiconductor materials however requires new insights into the role of defects to achieve new properties New experimental techniques must be developed to study defects in small structures Research groups come together in this book from MRS to provide a vivid picture of the current problems progress and methods in defect studies in electronic materials Topics include new techniques in defect studies processing induced defects plasma induced point defects processing induced defects defects and gate oxide integrity point defects and reaction point defects and interactions in Si impurity diffusion and hydrogen in Si dislocations in group IV semiconductors point defects and defect interactions in SiGe point defects in III V compounds compensation and structural defects in III V compounds and layers and structures

Materials Research Society Symposium Proceedings. Volume 442. Defects in Electronic Materials II. December 2-6, 1996, Boston, Massachusetts, 1996 This proceedings volume contains oral and poster contributions from a symposium on Defects in Electronic Materials at the combined meeting of the Materials Research Society MRS and the International Conference on Electronic Materials ICEM in December 1996 in Boston The volume comprises the areas of defects in group III V and wide bandgap semiconductors The symposium was planned to represent the general field of defects in electronic materials with a focus on issues that are currently widely discussed The pervasive role of defects in determining the thermal mechanical electrical optical and magnetic properties of materials is significant The knowledge of generation and control of defects in electronic materials has contributed to the success of these materials Developing novel semiconductor materials requires new insights into the role of defects to achieve new properties New experimental techniques have to be developed to study defects in small structures This proceedings volume provides a vivid picture of the current problems progress and methods in defect studies in electronic materials Of most interest were the sessions on new techniques in defect studies and on process induced defects in Si and GaAs Papers on new techniques addressed the issues of surface defects defects in small dimensions and the detection of near surface defects in Si In process induced defects three areas received significant attention Plasma processes in Si and GaAs produce defective layers Many papers deal with the understanding of these defects Grown in defects are widely studied because of their deteriorating effect on the gate oxide integrity GOI These defects were identified as octahedral voids in as grown silicon Another recurring issue is gettering of metallic impurities to prevent contamination during processing

Intrinsic Point Defects, Impurities, and Their Diffusion in Silicon Peter Pichler, 2012-12-06 Basically all properties of semiconductor devices are influenced by the distribution of point defects in their active areas This book contains the first comprehensive review of the properties of intrinsic point defects acceptor and donor impurities isovalent atoms chalcogens and halogens in

silicon as well as of their complexes Special emphasis is placed on compiling the structures energetic properties identified electrical levels and spectroscopic signatures and the diffusion behavior from experimental and theoretical investigations In addition the book discusses the fundamental concepts of silicon and its defects the electron system diffusion thermodynamics and reaction kinetics which form the scientific basis needed for a thorough understanding of the text Therefore the book is able to provide an introduction to newcomers in this field up to a comprehensive reference for experts in process technology solid state physics and simulation of semiconductor processes

Defects in Electronic Materials: Volume 104 M. Stavola, S. J. Pearton, G. Davies, 1988-05-05 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

Properties of Crystalline Silicon Robert Hull, 1999 A unique and well organized reference this book provides illuminating data distinctive insight and expert guidance on silicon properties

Defects in Advanced Electronic Materials and Novel Low Dimensional Structures Jan Stehr, Irina Buyanova, Weimin Chen, 2018-06-29 Defects in Advanced Electronic Materials and Novel Low Dimensional Structures provides a comprehensive review on the recent progress in solving defect issues and deliberate defect engineering in novel material systems It begins with an overview of point defects in ZnO and group III nitrides including irradiation induced defects and then look at defects in one and two dimensional materials including carbon nanotubes and graphene Next it examines the ways that defects can expand the potential applications of semiconductors such as energy upconversion and quantum processing The book concludes with a look at the latest advances in theory While defect physics is extensively reviewed for conventional bulk semiconductors the same is far from being true for novel material systems such as low dimensional 1D and 0D nanostructures and 2D monolayers This book fills that necessary gap Presents an in depth overview of both conventional bulk semiconductors and low dimensional novel material systems such as 1D structures and 2D monolayers Addresses a range of defects in a variety of systems providing a comparative approach Includes sections on advances in theory that provide insights on where this body of research might lead

Defects in Organic Semiconductors and Devices Thien-Phap Nguyen, 2023-08-22 Defects play a key role in the physical properties of semiconductors and devices and their identification is essential in assessing the reliability of electronic devices Defects in Organic Semiconductors and Devices introduces the fundamental aspects of defects in organic semiconductors and devices in relation to the structure of materials and architecture of electronic components It covers the topics of defect formation and evolution defect measurement techniques and their adaption to organic devices the effects of defects on the physical properties of materials and their effects on the performance and lifetime of organic devices Identifying defects and determining their characteristics in the structure of organic devices such as OLEDs OFETs and OPVs make it possible to better understand degradation processes and develop solutions to improve the reliability of such devices This book is intended for researchers and students in university programs or engineering schools who are specializing in electronics energy and materials

Ceramic Abstracts ,1998 **Defects in**

Semiconductors II Subhash Mahajan, James W. Corbett, 1983 2D Metal Carbides and Nitrides (MXenes) Babak Anasori, Yury Gogotsi, 2019-10-30 This book describes the rapidly expanding field of two dimensional 2D transition metal carbides and nitrides MXenes. It covers fundamental knowledge on synthesis, structure and properties of these new materials and a description of their processing, scale up and emerging applications. The ways in which the quickly expanding family of MXenes can outperform other novel nanomaterials in a variety of applications spanning from energy storage and conversion to electronics from water science to transportation and in defense and medical applications are discussed in detail.

Japanese Journal of Applied Physics, 1998 *Defect and Impurity Engineered Semiconductors and Devices III: Volume 719* S. Ashok, 2002-08-09 This book focuses on the deliberate introduction and manipulation of defects and impurities in order to engineer desired properties in semiconductor materials and devices. In view of current exciting developments in wide bandgap semiconductors like GaN for blue light emission as well as high speed and high temperature electronics, dopant and defect issues relevant to these materials are addressed. Also featured are semiconductor nanocavities and nanostructures with emphasis on the formation and impact of vacancy type defects. Defect reaction problems pertaining to impurity gettering, precipitation and hydrogen passivation are specific examples of defect engineering that improve the electronic quality of the material. A number of papers also deal with characterization techniques needed to study and to identify defects in materials and device structures. Finally, papers also address issues such as interface control and passivation, application of ion implantation, plasma treatment and rapid thermal processing for creating activating, suppressing trap levels and device applications. **Research in Progress** United States. Army Research Office, 1991 Vols for 1977 consist of two parts: Chemistry, biological sciences, engineering sciences, metallurgy and materials science issued in the spring and Physics, electronics, mathematics, geosciences issued in the fall Diffusion and Defect Data, 2002

Defects in Semiconductors Gordon Davies, Maria Helena Nazaré, 1997 Modern Technology depends upon silicon chips and life as we know it would hardly be possible without semiconductor devices. Control over a given semiconductor's electronic properties is achieved via defect engineering and the scientific and technical challenges in this field are manifold.

Publications in Engineering, 1998 **Heteroepitaxial Semiconductors for Electronic Devices** G.W. Cullen, C.C. Wang, 2013-11-11 Some years ago it was not uncommon for materials scientists even within the electronics industry to work relatively independently of device engineers. Neither group had a means to determine whether or not the materials had been optimized for application in specific device structures. This mode of operation is no longer desirable or possible. The introduction of a new material or a new form of a well known material now requires a close collaborative effort between individuals who represent the disciplines of materials preparation, materials characterization, device design and processing and the analysis of the device operation to establish relationships between device performance and the materials properties. The development of devices in heteroepitaxial thin films has advanced to the present state specifically through the unusually

close and active interchange among individuals with the appropriate backgrounds We find no book available which brings together a description of these diverse disciplines needed for the development of such a materials device technology Therefore the authors of this book who have worked in close collaboration for a number of years were motivated to collect their experiences in this volume Over the years there has been a logical flow of activity beginning with heteroepitaxial silicon and progressing through the III V and II VI compounds For each material the early emphasis on material preparation and characterization later shifted to an emphasis on the analysis of the device characteristics specific to the materials involved

Defect and Diffusion Forum Vol. 60 David Fisher,1988-01-01 Defect and Diffusion Forum Vol 60

Specimen Preparation for Transmission Electron Microscopy of Materials II Ron M. Anderson,1990

American Book Publishing Record ,2005

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