

# **Defects and Properties of Semiconductors: Defect Engineering**

Edited by  
J. Chikawa, K. Sumino, and K. Wada

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# Defects And Properties Of Semiconductors Defect Engineering

**Vitaly Gurylev**



## **Defects And Properties Of Semiconductors Defect Engineering:**

Defects and Properties of Semiconductors J. Chikawa, K. Sumino, K. Wada, 2011-12-25 This volume contains nearly all of the papers presented at the Symposium on Defects and Qualities of Semiconductors which was held in Tokyo on May 17 18 1984 under the sponsorship of the SOCIETY OF NON TRADITIONAL TECHNOLOGY The Symposium was organized by the promoting committee of the research project Quality Development of Semiconductors by Utilization of Crystal Defects sponsored by the Science and Technology Agency of Japan Defect study in semiconductor engineering started originally with seeking methods how to suppress generation of harmful defects during device processing in order to achieve a high yield of device fabrication Recently a new trend has appeared in which crystal defects are positively utilized to improve the device performance and reliability A typical example is the intrinsic gettering technique for Czochralski silicon Thus a new term DEFECT ENGINEERING was born It is becoming more important to control density and distribution of defects than to eliminate all the defects Very precise and deep knowledge on defects is required to establish such techniques as generation and development of defects desired depending on type of devices and degree of integration Electrical optical and mechanical effects of defects should be also understood correctly Such knowledge is essential even for eliminating defects from some specified device regions It is the time now to investigate defect properties and defect kinetics in an energetic way From this point of view all the speakers in this symposium were invited among the most active investigators in the field of defect engineering in Japan

### **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 nano structures 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

**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

*Defect Engineering in Semiconductor Growth, Processing, and Device Technology* S. Ashok, 1992 Proceedings of the San Francisco meeting of April May 1992 Papers emphasize deliberate and controlled introduction and manipulation of defects in order to

engineer some desired properties in semiconductor materials and devices Topics include defects in bulk crystals and in thin films defect characterization hydrogen interaction processing induction of defects quantum wells ion implantation Annotation copyright by Book News Inc Portland OR      **Charged Semiconductor Defects** Edmund G. Seebauer, Meredith C.

Kratzer, 2008-11-14 Defects in semiconductors have been studied for many years in many cases with a view toward controlling their behaviour through various forms of defect engineering For example in the bulk charging significantly affects the total concentration of defects that are available to mediate phenomena such as solid state diffusion Surface defects play an important role in mediating surface mass transport during high temperature processing steps such as epitaxial film deposition diffusional smoothing in reflow and nanostructure formation in memory device fabrication Charged Defects in Semiconductors details the current state of knowledge regarding the properties of the ionized defects that can affect the behaviour of advanced transistors photo active devices catalysts and sensors Features group IV III V and oxide semiconductors intrinsic and extrinsic defects and point defects as well as defect pairs complexes and clusters

Proceedings of the Fourth International Symposium on High Purity Silicon Cor L. Claeys, 1996      *C, H, N and O in Si and Characterization and Simulation of Materials and Processes* A. Borghesi, U.M. Gösele, J. Vanhellemont, A.M. Gué, M. Djafari-Rouhani, 2012-12-02 Containing over 200 papers this volume contains the proceedings of two symposia in the E MRS series Part I presents a state of the art review of the topic Carbon Hydrogen Nitrogen and Oxygen in Silicon and in Other Elemental Semiconductors There was strong representation from the industrial laboratories illustrating that the topic is highly relevant for the semiconductor industry The second part of the volume deals with a topic which is undergoing a process of convergence with two concerns that are more particularly application oriented Firstly the advanced instrumentation which through the use of atomic force and tunnel microscopies high resolution electron microscopy and other high precision analysis instruments now allows for direct access to atomic mechanisms Secondly the technological development which in all areas of applications particularly in the field of microelectronics and microsystems requires as a result of the miniaturisation race a precise mastery of the microscopic mechanisms      *Defect Interaction and Clustering in Semiconductors* Sergio Pizzini, 2001-12-12      *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 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 The Formation of Structural Imperfections in Semiconductor Silicon V. I. Talanin, I. E. Talanin, 2018-12-14 Today it is difficult to imagine all spheres of human activity without personal computers solid state electronic devices micro and nanoelectronics photoconverters and mobile communication devices The basic material of modern electronics and for all of these industries is semiconductor silicon Its properties and applications are determined by defects in its crystal structure However until now there has been no complete and reliable description of the creation and transformation of such a defective structure This book solves this mystery through two different approaches to semiconductor silicon the classical and the probabilistic This book brings together for the first time all existing experimental and theoretical information on the internal structure of semiconductor silicon It will appeal to a wide range of readers from materials scientists and practical engineers to students

**Proceedings of the Fourth International Symposium on Process Physics and Modeling in Semiconductor Technology** G. R. Srinivasan, C. S. Murthy, Scott T. Dunham, 1996

**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 CO<sub>2</sub> deactivation and semiconductor engineering

Concise Encyclopedia of Semiconducting Materials & Related Technologies S. Mahajan, L. C. Kimerling, 2013-10-22 The development of electronic materials and particularly advances in semiconductor technology have played a central role in the electronics revolution by allowing the production of increasingly cheap and powerful computing equipment and advanced telecommunications devices This Concise Encyclopedia which incorporates relevant articles from the acclaimed Encyclopedia of Materials Science and Engineering as well as newly commissioned articles emphasizes the materials aspects of semiconductors and the technologies important in solid state electronics Growth of bulk crystals and epitaxial layers are discussed in the volume and coverage is included of defects and their effects on device behavior Metallization and passivation issues are also covered Over 100 alphabetically arranged articles written by world experts in

the field are each intended to serve as the first source of information on a particular aspect of electronic materials. The volume is extensively illustrated with photographs, diagrams, and tables. A bibliography is provided at the end of each article to guide the reader to recent literature. A comprehensive system of cross references, a three level subject index, and an alphabetical list of articles are included to aid readers in the abstraction of information.

*Explorations in Computational Physics* Devang Patil, 2025-02-20. *Explorations in Computational Physics* delves into the intricate world of computational physics, offering a comprehensive guide from fundamental theories to cutting edge applications. This book serves as an indispensable companion for both novice learners and seasoned researchers. We cover a diverse array of topics, meticulously unfolding layers of computational techniques and their applications in various branches of physics. From classical mechanics simulations elucidating celestial mechanics to quantum mechanics computations unraveling atomic and subatomic realms, the book navigates through the vast landscape of computational methodologies with clarity and precision. Furthermore, we delve into electromagnetic field simulations, statistical mechanics, and thermodynamics, equipping readers with tools to model complex physical phenomena with accuracy and efficiency. High performance computing techniques, data analysis, and visualization methodologies are elucidated, empowering readers to harness modern computational resources in their research. With lucid explanations, illustrative examples, and insightful discussions on emerging technologies like quantum computing and artificial intelligence, *Explorations in Computational Physics* fosters a deeper understanding of computational methodologies and their transformative impact on physics research.

**Semiconductor Measurements and Instrumentation** W. R. Runyan, T. J. Shaffner, 1998. A reference on semiconductor characterization tools, this volume offers explanations of the advanced and traditional techniques for evaluating different criteria: crystal defects, impurity concentration, lifetime, film thickness, resistivity, and such critical electrical properties as mobility, Hall effect, and conductivity type.

*Oxygen in Silicon*, 1994-08-15. This volume reviews the latest understanding of the behavior and roles of oxygen in silicon, which will carry the field into the ULSI era from the experimental and theoretical points of view. The fourteen chapters, written by recognized authorities representing industrial and academic institutions, cover thoroughly the oxygen related phenomena from the crystal growth to device fabrication processes, as well as indispensable diagnostic techniques for oxygen. Comprehensive study of the behavior of oxygen in silicon. Discusses silicon crystals for VLSI and ULSI applications. Thorough coverage from crystal growth to device fabrication. Edited by technical experts in the field. Written by recognized authorities from industrial and academic institutions. Useful to graduate students, scientists in other disciplines, and active participants in the arena of silicon based microelectronics research. 297 original line drawings.

*Layered Materials in Photocatalysis* Liqun Ye, Dehua Xia, 2025-06-11. Increase photocatalytic efficiency with cutting edge materials. Photocatalysis, which modifies the rate of reactions stimulated by light absorption, can be a critical component of many catalytic processes. Layered structures can be used in photocatalysis to broaden surface area and generate more numerous reaction sites, which can in turn increase

both photocatalytic activity and quantum efficiency In recent years these layered materials have generated numerous applications in energy production and environmental chemistry Layered Materials in Photocatalysis introduces these materials their historical development and their key properties Analyzing all major classifications of layered photocatalysts it details their key environmental and energy applications and offers predictions for future research and development The result is a crucial volume summarizing a growing technology Layered Materials in Photocatalysis readers will also find Combines both science and skills for professionals in the field Detailed discussion of layered bismuth based photocatalysts metal free layered photocatalysts and many more Authored by one of the leading experts in structured materials in photocatalysis Layered Materials in Photocatalysis is ideal for catalytic chemists photochemists and any other scientists working with catalytic or energy generating processes

**Physics of Semiconductors** Aditya Saxena,2025-02-20 Physics of Semiconductors Core Principles is a comprehensive guide that demystifies how semiconductors function from the fundamental physics to the devices we use daily We cater to a general audience with a focus on readers in the United States We begin with the basics of quantum mechanics and solid state physics before diving into how these principles apply to semiconductors like silicon and gallium arsenide We explain crucial concepts such as band theory the flow of electricity through semiconductors and their use in devices like transistors and solar cells Additionally we discuss the manufacturing processes of semiconductors and highlight the advancements scientists are making in developing new and improved semiconductors Physics of Semiconductors Core Principles is an excellent resource for anyone eager to understand the intricacies of this essential technology

**Defects and Diffusion in Semiconductors - An Annual Retrospective VII** David Fisher,2004-11-01 This seventh volume in the series covering the latest results in the field includes abstracts of papers which appeared between the publication of Annual Retrospective VI Volumes 221 223 and the end of September 2004 allowing for vagaries of journal availability

*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



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