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**Radiation  
Effects  
in Advanced  
Semiconductor  
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and Devices**



Springer

# Radiation Effects In Advanced Semiconductor Materials And Devices

**Johann-Martin Spaeth, Harald Overhof**



## **Radiation Effects In Advanced Semiconductor Materials And Devices:**

**Radiation Effects in Advanced Semiconductor Materials and Devices** C. Claeys, E. Simoen, 2013-11-11 In the modern semiconductor industry there is a growing need to understand and combat potential radiation damage problems. Space applications are an obvious case but beyond that today's device and circuit fabrication rely on increasing numbers of processing steps that involve an aggressive environment where inadvertent radiation damage can occur. This book is both aimed at post graduate researchers seeking an overview of the field and will also be immensely useful for nuclear and space engineers and even process engineers. A background knowledge of semiconductor and device physics is assumed but the basic concepts are all briefly summarized. Finally the book outlines the shortcomings of present experimental and modeling techniques and gives an outlook on future developments.

**Radiation Effects in Advanced Semiconductor Materials and Devices** C. Claeys, Eddy Simoen, 2014-01-15

**Radiation Effects in Silicon Carbide** A.A. Lebedev, 2017 The book reviews the most interesting research concerning the radiation defects formed in 6H 4H and 3C SiC under irradiation with electrons, neutrons and some kinds of ions. The electrical parameters that make SiC a promising material for applications in modern electronics are discussed in detail. Specific features of the crystal structure of SiC are considered. It is shown that when wide bandgap semiconductors are studied it is necessary to take into account the temperature dependence of the carrier removal rate which is a standard parameter for determining the radiation hardness of semiconductors. The carrier removal rate values obtained by irradiation of various SiC polytypes with n and p type conductivity are analyzed in relation to the type and energy of the irradiating particles. The influence exerted by the energy of charged particles on how radiation defects are formed and conductivity is compensated in semiconductors under irradiation is analyzed. Furthermore the possibility to produce controlled transformation of silicon carbide polytype is considered. The involvement of radiation defects in radiative and nonradiative recombination processes in SiC is analyzed. Data are also presented regarding the degradation of particular SiC electronic devices under the influence of radiation and a conclusion is made regarding the radiation resistance of SiC. Lastly the radiation hardness of devices based on silicon and silicon carbide are compared.

**Research on the Radiation Effects and Compact Model of SiGe HBT** Yabin Sun, 2017-10-24 This book primarily focuses on the radiation effects and compact model of silicon germanium SiGe heterojunction bipolar transistors HBTs. It introduces the small signal equivalent circuit of SiGe HBTs including the distributed effects and proposes a novel direct analytical extraction technique based on non linear rational function fitting. It also presents the total dose effects irradiated by gamma rays and heavy ions as well as the single event transient induced by pulse laser microbeams. It offers readers essential information on the irradiation effects technique and the SiGe HBTs model using that technique.

**Simulation of Semiconductor Processes and Devices 2004** Gerhard Wachutka, Gabriele Schrag, 2012-12-06 This volume contains the proceedings of the 10th edition of the International

Conference on Simulation of Semiconductor Processes and Devices SISPAD 2004 held in Munich Germany on September 2 4 2004 The conference program included 7 invited plenary lectures and 82 contributed papers for oral or poster presentation which were carefully selected out of a total of 151 abstracts submitted from 14 countries around the world Like the previous meetings SISPAD 2004 provided a world wide forum for the presentation and discussion of recent advances and developments in the theoretical description physical modeling and numerical simulation and analysis of semiconductor fabrication processes device operation and system performance The variety of topics covered by the conference contributions reflects the physical effects and technological problems encountered in consequence of the progressively shrinking device dimensions and the ever growing complexity in device technology

**Biomedical Engineering Systems and Technologies** Nathalia Peixoto, Margarida Silveira, Hesham H. Ali, Carlos Maciel, Egon L. van den Broek, 2018-07-02 This book constitutes the thoroughly refereed post conference proceedings of the 10th International Joint Conference on Biomedical Engineering Systems and Technologies BIOSTEC 2017 held in Porto Portugal in February 2017 The 20 revised full papers presented were carefully reviewed and selected from a total of 297 submissions The papers are organized in topical sections on biomedical electronics and devices bioimaging bioinformatics models methods and algorithms bio inspired systems and signal processing and health informatics

*Microelectronics Technology and Devices - SBMicro 2010* Marcelo Antonio Pavanello, Cor Claeys, Joao Antonio Martino, 2010-09 Held in Sao Paulo Brazil from September 6 September 9 2010 the mission of the 25th Symposium on Microelectronics Technology and Devices SBMicro2010 was to share ideas and to point to new directions for future research and development SBMicro offers researchers and practitioners a unique opportunity to share their perspectives with those interested in the various aspects of microelectronics This issue of ECS Transactions continues the SBMicro tradition of being a premier forum for the presentation of leading edge research on process devices sensors and integrated circuit technology

**Extreme Environment Electronics** John D. Cressler, H. Alan Mantooth, 2017-12-19 Unfriendly to conventional electronic devices circuits and systems extreme environments represent a serious challenge to designers and mission architects The first truly comprehensive guide to this specialized field Extreme Environment Electronics explains the essential aspects of designing and using devices circuits and electronic systems intended to operate in extreme environments including across wide temperature ranges and in radiation intense scenarios such as space The Definitive Guide to Extreme Environment Electronics Featuring contributions by some of the world's foremost experts in extreme environment electronics the book provides in depth information on a wide array of topics It begins by describing the extreme conditions and then delves into a description of suitable semiconductor technologies and the modeling of devices within those technologies It also discusses reliability issues and failure mechanisms that readers need to be aware of as well as best practices for the design of these electronics Continuing beyond just the paper design of building blocks the book rounds out coverage of the design realization process with verification techniques and chapters on

electronic packaging for extreme environments The final set of chapters describes actual chip level designs for applications in energy and space exploration Requiring only a basic background in electronics the book combines theoretical and practical aspects in each self contained chapter Appendices supply additional background material With its broad coverage and depth and the expertise of the contributing authors this is an invaluable reference for engineers scientists and technical managers as well as researchers and graduate students A hands on resource it explores what is required to successfully operate electronics in the most demanding conditions

*Focus on Semiconductor Research* Thomas B. Elliot, 2005 This book includes within its scope studies of the structural electrical optical and acoustical properties of bulk low dimensional and amorphous semiconductors computational semiconductor physics interface properties including the physics and chemistry of heterojunctions metal semiconductor and insulator semiconductor junctions all multi layered structures involving semiconductor components Dopant incorporation Growth and preparation of materials including both epitaxial e g molecular beam and chemical vapour methods and bulk techniques in situ monitoring of epitaxial growth processes also included are appropriate aspects of surface science such as the influence of growth kinetics and chemical processing on layer and device properties The physics of semiconductor electronic and optoelectronic devices are examined including theoretical modelling and experimental demonstration all aspects of the technology of semiconductor device and circuit fabrication Relevant areas of molecular electronics and semiconductor structures incorporating Langmuir Blodgett films resists lithography and metallisation where they are concerned with the definition of small geometry structure The structural electrical and optical characterisation of materials and device structures are also included The scope encompasses materials and device reliability reliability evaluation of technologies failure analysis and advanced analysis techniques such as SEM E beam optical emission microscopy acoustic microscopy techniques liquid crystal techniques noise measurement reliability prediction and simulation reliability indicators failure mechanisms including charge migration trapping oxide breakdown hot carrier effects electro migration stress migration package related failure mechanisms effects of operational and environmental stresses on reliability

Basic Properties of III-V Devices - Understanding Mysterious Trapping Phenomena Kompa, Günter, 2014 Trapping effects in III V devices pose a great challenge to any microwave device modeler Understanding their physical origins is of prime importance to create physics related reliable device models The treatment of trapping phenomena is commonly beyond the classical higher education level of communication engineers This book provides any basic material needed to understand trapping effects occurring primarily in GaAs and GaN power HEMT devices As the text material covers interdisciplinary topics such as crystal defects and localized charges trap centers and trap dynamics deep level transient spectroscopy and trap centers in passivation layers the book will be of interest to graduate students of electrical engineering communication engineering and physics as well as materials device and circuit engineers in research and industry

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Silvia liberataullo, dr. Yogesh g s, dr. I manimozhi, prof. Shilpa patil., **Advances in Medical Engineering** Thorsten M. Buzug, 2007-07-19 This book offers a lucid and comprehensive account of research and development trends of physics engineering mathematics and computer sciences in biomedical engineering Contributions from industry clinics universities and research labs are reviewed Coverage focuses on medical imaging medical image processing computer assisted surgery biomechanics biomedical optics and laser medicine The book is designed and written to give insight to recent engineering clinical and mathematical studies *Point Defects in Semiconductors and Insulators* Johann-Martin Spaeth, Harald Overhof, 2013-04-17 The precedent book with the title Structural Analysis of Point Defects in Solids An introduction to multiple magnetic resonance spectroscopy appeared about 10 years ago Since then a very active development has occurred both with respect to the experimental methods and the theoretical interpretation of the experimental results It would therefore not have been sufficient to simply publish a second edition of the precedent book with corrections and a few additions Furthermore the application of the multiple magnetic resonance methods has more and more shifted towards materials science and represents one of the important methods of materials analysis Multiple magnetic resonances are used less now for fundamental studies in solid state physics Therefore a more pedestrian access to the methods is called for to help the materials scientist to use them or to appreciate results obtained by using these methods We have kept the two introductory chapters on conventional electron paramagnetic resonance EPR of the precedent book which are the base for the multiple resonance methods The chapter on optical detection of EPR ODEPR was supplemented by sections on the structural information one can get from forbidden transitions as well as on spatial correlations between defects in the so called cross relaxation spectroscopy High field ODEPR ENDOR was also added The chapter on stationary electron nuclear double resonance ENDOR was supplemented by the method of stochastic ENDOR developed a few years ago in Paderborn which is now also commercially available Nanodevices and Nanomaterials for Ecological Security Yuri N. Shunin, Arnold E. Kiv, 2012-06-05 This book is devoted to a wide range of problems concerning applications of nanomaterials and nanodevices as effective solutions to modern ecological problems Leading experts in nanoscience and nanotechnology present the key theoretical experimental and implementation issues related to the creation and utilization of novel nanoscale devices to help ensure ecological security The authors discuss appropriate nanotechnologies for minimizing various types of risk to human life technogenic risk or indeed terrorist threats Particular emphasis is placed on defining and studying the required materials properties and in the field on nanoscale devices for sensors and monitoring Low Temperature Electronics and Low Temperature Cofired Ceramic Based Electronic Devices Electrochemical Society. Meeting, 2004 Nanocrystalline Ceramics Markus Winterer, 2013-03-09 Nanocrystalline materials is the name given to three dimensional ultrafine polycrystalline microstructures These microstructures give rise to chemical and physical size effects which are of increasing scientific and technological interest This book describes the development of a chemical vapor synthesis method

for the production of nanocrystalline ceramic powders The development of the microstructure during sintering is studied and the influence of the synthesis parameters on the structure and properties of the nanocrystalline ceramics from the atomic to the microstructural level is investigated The emerging unified view from powder synthesis and ceramic processing to structural characterization and determination of properties provides a detailed understanding of nanocrystalline materials and enables a precise control of the quality of the final products

**Nanoelectronics: Physics, Materials and Devices**  
Angsuman Sarkar,Chandan Kumar Sarkar,Arpan Deyasi,Debashis De,Arezki Benfdila,2023-01-03 Approx 528 pagesApprox 528 pages

*The Physics of Organic Superconductors and Conductors* Andrei Lebed,2008-03-26 This bang up to date volume contains the distilled wisdom of some of the world s leading minds on the subject Inside there is a treasure trove of general tutorial and topical reviews written by leading researchers in the area of organic superconductors and conductors The papers hail from all over the world as far afield as the USA and Australia They cover contemporary topics such as unconventional superconductivity non Fermi liquid properties and the quantum Hall effect

*Defects and Diffusion in Semiconductors - An Annual Retrospective IX* David Fisher,2007-01-15 This ninth volume in the series covering the latest results in the field includes abstracts of papers which appeared between the publication of Annual Retrospective VIII Volumes 245 246 and the end of January 2007 journal availability permitting

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