

MATERIALS SCIENCE

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# **Radiation Effects in Advanced Semiconductor Materials and Devices**



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# Radiation Effects In Advanced Semiconductor Materials And Devices

**Markus Winterer**



## **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 Advanced Semiconductor Materials and Devices* Frank Larin, 1968

**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 Claey, 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

**Nanocrystalline Ceramics** Markus Winterer, 2002-08-21 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

**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

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

**Research and Technology Program Digest Flash Index**, 1967 **Research and Technology Program Digest** United States. National Aeronautics and Space Administration, Cooperative Research Associateships Tenable at the Naval Research Laboratory, Washington, 1997

**Molecular Catalysts for Energy Conversion** Tatsuhiko Okada, Masao Kaneko, 2008-10-10 Over the past decade the topic of energy and environment has been acknowledged among many people as a critical issue to be solved in 21st century since the Kyoto Protocol came into effect in 1997 Its political recognition was put forward especially at Heiligendamm in 2007 when the effect of carbon dioxide emission and its hazard in global climate were discussed and shared universally as common knowledge Controlling the global warming in the economical framework of massive development worldwide through this new century is a very challenging problem not only among political economical or social circles but also among technological or scientific communities As long as the humans depend on the combustion of fossil for energy resources the waste heat exhaustion and CO emission are inevitable 2 In order to establish a new era of energy saving and environment benign society which is supported by technologies and with social consensus it is important to seek for a framework where new clean energy system is incorporated as infrastructure for industry and human activities Such a society strongly needs innovative technologies of least CO emission and efficient energy conversion and utilization from remaining fossil energies on the Earth Energy recycling system utilizing natural renewable energies and their conversion to hydrogen may be the most

desirable option of future clean energy society Thus the society should strive to change its energy basis from fossil consuming energy to clean and recycling energy

**Organic Semiconductors in Sensor Applications** Daniel A. Bernardes, Róisín M. Owens, George G. Malliaras, 2008-02-22 Organic semiconductors offer unique characteristics which have prompted the application of organic semiconductors and their devices in physical chemical and biological sensors This book covers this emerging field by discussing both optically and electrically based sensor concepts Novel transducers based on organic light emitting diodes and organic thin film transistors as well as systems on a chip architectures are presented Functionalization techniques are also outlined

*Radiation Effects and Soft Errors in Integrated Circuits and Electronic Devices* Dan M. Fleetwood, 2004 This book provides a detailed treatment of radiation effects in electronic devices including effects at the material device and circuit levels The emphasis is on transient effects caused by single ionizing particles single event effects and soft errors and effects produced by the cumulative energy deposited by the radiation total ionizing dose effects Bipolar Si and SiGe metal-oxide-semiconductor MOS and compound semiconductor technologies are discussed In addition to considering the specific issues associated with high performance devices and technologies the book includes the background material necessary for understanding radiation effects at a more general level Contents Single Event Effects in Avionics and on the Ground E Normand Soft Errors in Commercial Integrated Circuits R C Baumann System Level Single Event Upset Mitigation Strategies W F Heidergott Space Radiation Effects in Optocouplers R A Reed et al The Effects of Space Radiation Exposure on Power MOSFETs A Review K Shenai et al Total Dose Effects in Linear Bipolar Integrated Circuits H J Barnaby Hardness Assurance for Commercial Microelectronics R L Pease Switching Oxide Traps T R Oldham Online and Realtime Dosimetry Using Optically Stimulated Luminescence L Dusseau and other articles Readership Practitioners researchers managers and graduate students in electrical and electronic engineering semiconductor science and technology and microelectronics

## Unveiling the Magic of Words: A Overview of "**Radiation Effects In Advanced Semiconductor Materials And Devices**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Radiation Effects In Advanced Semiconductor Materials And Devices**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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