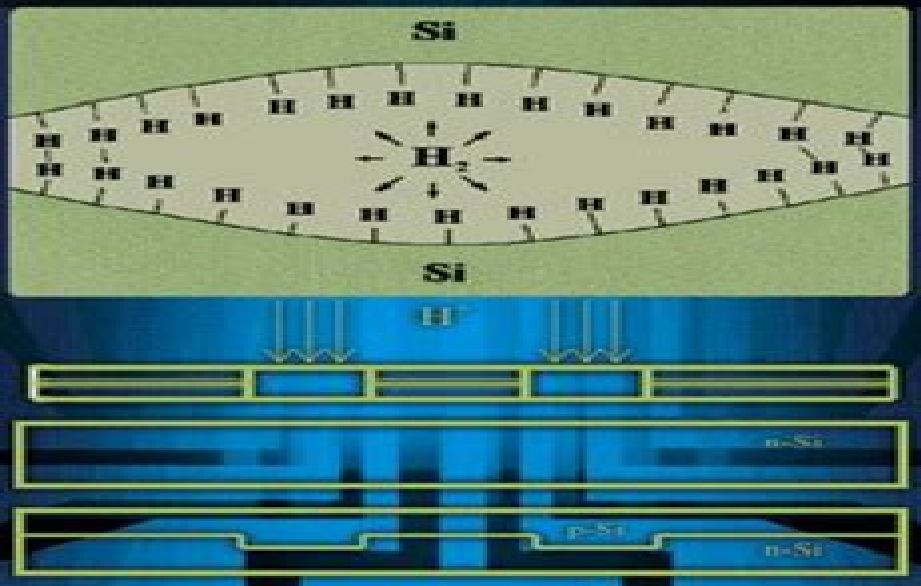
Selected Topics in Electronics and Systems — Vol. 37

RADIATION DEFECT ENGINEERING

Kozlovski Vitali
Abrosimova Vera



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Radiation Defect Engineering Selected Topics In Electronics And Systems

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Radiation Defect Engineering Selected Topics In Electronics And Systems:

Radiation Defect Engineering Vitaliĭ Vasil′evich Kozlovskiĭ,Vera Abrosimova,2005 **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 *Design of High-speed Communication Circuits* Ramesh Harjani,2006 MOS technology has rapidly become the de facto standard for mixed signal integrated circuit design due to the high levels of integration possible as device geometries shrink to nanometer scales The reduction in feature size means that the number of transistor and clock speeds have increased significantly In fact current day microprocessors contain hundreds of millions of transistors operating at multiple gigahertz Furthermore this reduction in feature size also has a significant impact on mixed signal circuits Due to the higher levels of integration the majority of ASICs possesses some analog components It has now become nearly mandatory to integrate both analog and digital circuits on the same substrate due to cost and power constraints This book presents some of the newer problems and opportunities offered by the small device geometries and the high levels of integration that is now possible The aim of this book is to summarize some of the most critical aspects of high speed analog RF communications circuits Attention is focused on the impact of scaling substrate noise data converters RF and wireless communication circuits and wireline communication circuits including high speed I O Contents Achieving Analog Accuracy in Nanometer CMOS M P Flynn et al Self Induced Noise in Integrated Circuits R Gharpurey High Speed Oversampling Analog to Digital Converters A Gharbiya et al Designing LC VCOs Using Capacitive Degeneration Techniques B Jung Fully Integrated Frequency Synthesizers A Tutorial S T Moon et al Recent Advances and Design Trends in CMOS Radio Frequency Integrated Circuits D J Allstot et al Equalizers for High Speed Serial Links P K Hanumolu et al Low Power Parallel Interface with Continuous Time Adaptive Passive Equalizer and Crosstalk Cancellation C P Yue et al Readership Technologists scientists and engineers in the

field of high speed communication circuits It can also be used as a textbook for graduate and advanced undergraduate courses *Frontiers In Electronics* Sorin Cristoloveanu,Michael S Shur,2009-08-06 Frontiers in Electronics contains the selected best papers presented at the Workshop on Frontiers in Electronics WOFE 07 This meeting was the fifth in the series of WOFE workshops and strongly reinforced the tradition of scientific quality and visionary research The issues addressed ranged from THz and infrared electronics to nanoelectronics and photonics The papers focused on the fabrication characterization and applications of nanodevices wide band gap structures and state of the art FETs The participants also discussed the device physics and processing issues including aspects related to SOI and germanium on insulator technologies TFTs and advanced CMOS and MOSFETs It is this cross pollination between different but related fields that made this conference very special This book which goes beyond the publication of the WOFE Proceedings includes full length invited papers selected at the conference and reviewed by international leaders The book is divided into four distinct sections with the common denominator throughout being the nano device present under various metamorphoses in the wide CMOS and optoelectronics arena a Advanced Semiconductor Devices - Proceedings Of The 2006 Lester Eastman Conference Paul Maki,Michael S Shur,James Kolodzey,2007-06-27 This volume covers five emerging areas of advanced device technology wide band gap devices terahertz and millimeter waves nanometer silicon and silicon germanium devices nanoelectronics and ballistic devices and the characterization of advanced photonic and electronic devices The papers by leading researchers in high speed and advanced electronic and photonic technology presented many firsts and breakthrough results as has become a tradition with the Lester Eastman Conference and will allow readers to obtain up to date information about emerging trends and future directions of these technologies Key papers in each section present snap shot and mini reviews of state of the art and hot off the press results making the book required reading for engineers scientists and students working on advanced and high speed device technology **SiC Materials and Devices** Michael Shur,2007 Silicon carbide is known to have been investigated since 1907 when Captain H J Round demonstrated yellow and blue emission by applying bias between a metal needle and an SiC crystal The potential of using SiC in semiconductor electronics was already recognized half a century ago Despite its well known properties it has taken a few decades to overcome the exceptional technological difficulties of getting silicon carbide material to reach device quality and travel the road from basic research to commercialization This second of two volumes reviews four important additional areas the growth of SiC substrates the deep defects in different SiC polytypes which after many years of research still define the properties of bulk SiC and the performance and reliability of SiC devices recent work on SiC JFETs and the complex and controversial issues important for bipolar devices Recognized leaders in the field the contributors to this volume provide up to date reviews of further state of the art areas in SiC technology and materials and device research Sic Materials And Devices - Volume 1 Sergey Rumyantsev,Michael S Shur,Michael E Levinshtein,2006-07-25 After many years of research and development silicon carbide

has emerged as one of the most important wide band gap semiconductors The first commercial SiC devices power switching Schottky diodes and high temperature MESFETs are now on the market This two volume book gives a comprehensive up to date review of silicon carbide materials properties and devices With contributions by recognized leaders in SiC technology and materials and device research SiC Materials and Devices is essential reading for technologists scientists and engineers who are working on silicon carbide or other wide band gap materials and devices The volumes can also be used as supplementary textbooks for graduate courses on silicon carbide and wide band gap semiconductor technology Sic Materials And Devices - Volume 2 Michael S Shur,Sergey Rumyantsev,Michael E Levinshtein,2007-01-19 Silicon carbide is known to have been investigated since 1907 when Captain H J Round demonstrated yellow and blue emission by applying bias between a metal needle and an SiC crystal The potential of using SiC in semiconductor electronics was already recognized half a century ago Despite its well known properties it has taken a few decades to overcome the exceptional technological difficulties of getting silicon carbide material to reach device quality and travel the road from basic research to commercialization This second of two volumes reviews four important additional areas the growth of SiC substrates the deep defects in different SiC polytypes which after many years of research still define the properties of bulk SiC and the performance and reliability of SiC devices recent work on SiC JFETs and the complex and controversial issues important for bipolar devices Recognized leaders in the field the contributors to this volume provide up to date reviews of further state of the art areas in SiC technology and materials and device research **Physics and Modeling of Tera- and Nano-devices** Maxim Ryzhii,Victor Ryzhii,2008 Physics and Modeling of Tera and Nano Devices is a compilation of papers by well respected researchers working in the field of physics and modeling of novel electronic and optoelectronic devices The topics covered include devices based on carbon nanotubes generation and detection of terahertz radiation in semiconductor structures including terahertz plasma oscillations and instabilities terahertz photomixing in semiconductor heterostructures spin and microwave induced phenomena in low dimensional systems and various computational aspects of device modeling Researchers as well as graduate and postgraduate students working in this field will benefit from reading this book Sample Chapter s Semiconductor Device Scaling Physics Transport and the Role of Nanowires 784 KB Contents Semiconductor Device Scaling Physics Transport and the Role of Nanowires D K Ferry et al Polaronic Effects at the Field Effect Junctions for Unconventional Semiconductors N Kirova Cellular Monte Carlo Simulation of High Field Transport in Semiconductor Devices S M Goodnick Nanoelectronic Device Simulation Based on the Wigner Function Formalism H Kosina Quantum Simulations of Dual Gate MOSFET Devices Building and Deploying Community Nanotechnology Software Tools on nanoHUB org S Ahmed et al Positive Magneto Resistance in a Point Contact Possible Manifestation of Interactions V T Renard et al Impact of Intrinsic Parameter Fluctuations in Nano CMOS Devices on Circuits and Systems S Roy et al HEMT Based Nanometer Devices Toward Terahertz Era E Sano Plasma Waves in Two Dimensional Electron Systems and Their Applications V Ryzhii et

al Resonant Terahertz Detection Antenna Utilizing Plasma Oscillations in Lateral Schottky Diode A Satou et al Terahertz Polarization Controller Based on Electronic Dispersion Control of 2D Plasmons T Nishimura Higher Order Plasmon Resonances in GaN Based Field Effect Transistor Arrays V V Popov et al Ultra Highly Sensitive Terahertz Detection Using Carbon Nanotube Quantum Dots Y Kawano et al Generation of Ultrashort Electron Bunches in Nanostructures by Femtosecond Laser Pulses A Gladun et al Characterization of Voltage Controlled Oscillator Using RTD Transmission Line K Narahara et al Infrared Quantum Dot Detectors with Diffusion Limited Capture N Vagidov et al Magnetoresistance in Fe MgO Fe Magentic Tunnel Junctions N N Beleskii et al Modeling and Implementation of Spin Based Quantum Computation M E Hawley et al Quantum Engineering for Threat Reduction and Homeland Security G P Berman et al Strong Phase Shift Mask Manufacturing Error Impact on the 65nm Poly Line Printability N Belova Readership Academics graduate and postgraduate students in the field of physics and modeling of novel electronics and optoelectronic devices Advanced High Speed Devices Michael S. Shur,Paul Maki,2010 Advanced High Speed Devices covers five areas of advanced device technology terahertz and high speed electronics ultraviolet emitters and detectors advanced III V field effect transistors III N materials and devices and SiC devices These emerging areas have attracted a lot of attention and the up to date results presented in the book will be of interest to most device and electronics engineers and scientists The contributors range from prominent academics such as Professor Lester Eastman to key US Government scientists such as Dr Michael Wraback Sample Chapter s Chapter 1 Simulation and Experimental Results on Gan Based Ultra Short Planar Negative Differential Conductivity Diodes for THZ Power Generation 563 KB Contents Simulation and Experimental Results on GaN Basee Ultra Short Planar Negative Differential Conductivity Diodes for THz Power Generation B Aslan et al Millimeter Wave to Terahertz in CMOS K K O S Sankaran et al Surface Acoustic Wave Propagation in GaN On Sapphire Under Pulsed Sub Band Ultraviolet Illumination V S Chivukula et al The First 70nm 6 Inch GaAs PHEMT MMIC Process H Karimy et al Performance of MOSFETs on Reactive Ion Etched GaN Surfaces K Tang et al GaN Transistors for Power Switching and Millimeter Wave Applications T Ueda et al Bi Directional Scalable Solid State Circuit Breakers for Hybrid Electric Vehicles D P Urciuoli and other papers Readership Electronic engineers solid state physicists graduate students studying physics or electrical engineering *Terahertz Science and Technology for Military and Security Applications* Dwight L. Woolard,2007 The inherent advantages and potential payoffs of the terahertz THz regime for military and security applications serve as an important driver for interest in new THz related science and technology In particular the very rapid growth in more recent years is arguably most closely linked to the potential payoffs of THz sensing and imaging THz S Fingerprinting Insulins in the Spectral Region from Mid IR to THz R Song et al Ambient Air Used as the Nonlinear Media for THz Wave Generation X Xie et al Time Domain Terahertz Imaging of Threats in Luggage and Personnel D Zimdars et al Designed Self Organization for Molecular Optoelectronic Sensors M Norton An Optically Triggered I RTD Hybrid THz Oscillator Design D Woolard et al New Technique to Suppress Sidelobe

Clutter in Perimeter Security Systems G W Webb et al Remote Identification of Foreign Subjects A Sokolnikov and other papers Readership University researchers in electrical engineering physics chemistry biology students and small business efforts in high frequency electronics and sensors as a supplement for graduate courses **High-speed Optical Transceivers: Integrated Circuits Designs And Optical Devices Techniques** Yuyu Liu,Huazhong Yang,2006-03-09 This book explores the unique advantages and large inherent transmission capacity of optical fiber communication systems The long term and high risk research challenges of optical transceivers are analyzed with a view to sustaining the seemingly insatiable demand for bandwidth A broad coverage of topics relating to the design of high speed optical devices and integrated circuits oriented to low power low cost and small area is discussed Written by specialists with many years of research and engineering experience in the field of optical fiber communication this book is essential for an audience dedicated to the development of integrated electronic systems for optical communication applications It can also be used as a supplementary text for graduate courses on optical transceiver IC design **Nanotubes and Nanowires** Peter John Burke,2007 The field of nanotubes and nanowires is evolving at a rapid pace with many potential applications in electronics optics and sensors to name a few In this book various prominent researchers summarize our current understanding of these new materials systems as well as some of these potential applications A snapshot of the state of the art in the field of nanowires and nanotubes the contributions give an instructive mix of experimental theoretical and visionary material to give the reader an indication of where the field is now and where it is going With several points of view represented including academic theoreticians academic experimental device engineers and industry researchers from well known semiconductor companies Nanotubes and Nanowires is an essential source of reference for physicists chemists materials scientists and graduate students interested in keeping abreast of the latest developments in nanotechnology **Spectral Sensing Research for Water Monitoring Applications and Frontier Science and Technology for Chemical, Biological and Radiological Defense** Dwight L. Woolard,Janet L. Jensen,2008 This book provides unique perspectives on both state of the art hyperspectral techniques for the early warning monitoring of water supplies against chemical biological and radiological CBR contamination effects as well as the emerging spectroscopic science and technology base that will be used to support an array of CBR defense and security applications in the future The technical content in this book lends itself to the non traditional requirements for point and stand off detection that have evolved out of the US joint services programs over many years In particular the scientific and technological work presented seeks to enable hyperspectral based sensing and monitoring that is real time in line low in cost and labor and easy to support maintain and use in military and security relevant scenarios Spectral Sensing Research For Surface And Air Monitoring In Chemical, Biological And Radiological Defense And Security Applications Jean-marc Theriault,James O Jensen,2009-08-11 This book provides unique perspectives on the state of the art in multispectral hyperspectral techniques for early warning monitoring against chemical biological and

radiological CB low in cost and labor requirements and easy to support maintain and use in military and security relevant scenarios *Frontiers In Electronics (With Cd-rom) - Proceedings Of The Wofe-04* Michael S Shur,Yoshi Nishi,Hiroshi Iwai,Hei Wong,2006-08-10 Frontiers in Electronics reports on the most recent developments and future trends in the electronics and photonics industry The issues address CMOS SOI and wide band gap semiconductor technology terahertz technology and bioelectronics providing a unique interdisciplinary overview of the key emerging issues This volume accurately reflects the recent research and development trends from pure research to research and development and its contributors are leading experts in microelectronics nanoelectronics and nanophotonics from academia industry and government agencies Transformational Science And Technology For The Current And Future Force (With Cd-rom) - Proceedings Of The 24th Us Army Science Conference A M Rajendran,J A Parmentola,W Bryzik,B J Walker,J W Mccauley,J Reifman,N M Nasrabadi,2006-11-08 This book provides the reader with a unique opportunity to understand the basic and applied research and technology areas that support applications to enable Transformational capabilities for US Soldiers The research papers are in line with the theme of the 24th Army Science Conference Transformational Science and Technology for the Current and Future Force emphasizing the critical role of Science and Technology in addressing the significant challenges posed by Global War On Terrorism while simultaneously developing Transformational capabilities for the Future Force **Radiation Defect Engineering** Abrosimova Vera,Vitali V Kozlovski,2005-11-17 The increasing complexity of problems in semiconductor electronics and optoelectronics has exposed the insufficient potential of the technological doping processes currently used One of the most promising techniques which this book explores is radiation doping the intentional directional modification of the properties of semiconductors under the action of various types of radiation The authors consider the basic principles of proton interactions with single crystal semiconductors on the basis of both theory as well as practical results All types of proton modifications of the materials known presently are analyzed in detail and exciting new fields of research in this direction are discussed University of Michigan Official Publication ,1960 **College of Engineering** University of Michigan. College of Engineering,1970

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