

Ionizing Radiation Effects in Electronics

From Memories
to Imagers

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SIMONE GERARDIN



CRC Press
Taylor & Francis Group

Nice Ionizing Radiation Effects Electronics Memories

A Gutmann



Nice Ionizing Radiation Effects Electronics Memories:

Radiation Effects in Semiconductors Krzysztof Iniewski, 2018-09-03 Space applications nuclear physics military operations medical imaging and especially electronics modern silicon processing are obvious fields in which radiation damage can have serious consequences i.e. degradation of MOS devices and circuits Zeroing in on vital aspects of this broad and complex topic *Radiation Effects in Semiconductors* addresses the ever growing need for a clear understanding of radiation effects on semiconductor devices and circuits to combat potential damage it can cause Features a chapter authored by renowned radiation authority Lawrence T Clark on Radiation Hardened by Design SRAM Strategies for TID and SEE Mitigation This book analyzes the radiation problem focusing on the most important aspects required for comprehending the degrading effects observed in semiconductor devices circuits and systems when they are irradiated It explores how radiation interacts with solid materials providing a detailed analysis of three ways this occurs Photoelectric effect Compton effect and creation of electron positron pairs The author explains that the probability of these three effects occurring depends on the energy of the incident photon and the atomic number of the target The book also discusses the effects that photons can have on matter in terms of ionization effects and nuclear displacement Written for post graduate researchers semiconductor engineers and nuclear and space engineers with some electronics background this carefully constructed reference explains how ionizing radiation is creating damage in semiconducting devices and circuits and systems and how that damage can be avoided in areas such as military space missions nuclear applications plasma damage and X ray based techniques It features top notch international experts in industry and academia who address emerging detector technologies circuit design techniques new materials and innovative system approaches

Rad-hard Semiconductor Memories Cristiano

Calligaro, Umberto Gatti, 2022-09-01 *Rad hard Semiconductor Memories* is intended for researchers and professionals interested in understanding how to design and make a preliminary evaluation of rad hard semiconductor memories making leverage on standard CMOS manufacturing processes available from different silicon foundries and using different technology nodes In the first part of the book a preliminary overview of the effects of radiation in space with a specific focus on memories will be conducted to enable the reader to understand why specific design solutions are adopted to mitigate hard and soft errors The second part will be devoted to RHBD Radiation Hardening by Design techniques for semiconductor components with a specific focus on memories The approach will follow a top down scheme starting from RHBD at architectural level how to build a rad hard floor plan at circuit level how to mitigate radiation effects by handling transistors in the proper way and at layout level how to shape a layout to mitigate radiation effects After the description of the mitigation techniques the book enters in the core of the topic covering SRAMs synchronous asynchronous single port and dual port and PROMs based on AntiFuse OTP technologies describing how to design a rad hard flash memory and fostering RHBD toward emerging memories like ReRAM The last part will be a leap into emerging memories at a very early stage not

yet ready for industrial use in silicon but candidates to become an option for the next wave of rad hard components Technical topics discussed in the book include Radiation effects on semiconductor components TID SEE Radiation Hardening by Design RHBD Techniques Rad hard SRAMs Rad hard PROMs Rad hard Flash NVMs Rad hard ReRAMs Rad hard emerging technologies

Ionizing Radiation Effects in Electronics Marta Bagatin, Simone Gerardin, 2018-09-03 Ionizing Radiation Effects in Electronics From Memories to Imagers delivers comprehensive coverage of the effects of ionizing radiation on state of the art semiconductor devices The book also offers valuable insight into modern radiation hardening techniques The text begins by providing important background information on radiation effects their underlying mechanisms and the use of Monte Carlo techniques to simulate radiation transport and the effects of radiation on electronics The book then Explains the effects of radiation on digital commercial devices including microprocessors and volatile and nonvolatile memories static random access memories SRAMs dynamic random access memories DRAMs and Flash memories Examines issues like soft errors total dose and displacement damage together with hardening by design solutions for digital circuits field programmable gate arrays FPGAs and mixed analog circuits Explores the effects of radiation on fiber optics and imager devices such as complementary metal oxide semiconductor CMOS sensors and charge coupled devices CCDs Featuring real world examples case studies extensive references and contributions from leading experts in industry and academia Ionizing Radiation Effects in Electronics From Memories to Imagers is suitable both for newcomers who want to become familiar with radiation effects and for radiation experts who are looking for more advanced material or to make effective use of beam time

Inside NAND Flash Memories Rino Micheloni, Luca Crippa, Alessia Marelli, 2010-07-27 Digital photography MP3 digital video etc make extensive use of NAND based Flash cards as storage media To realize how much NAND Flash memories pervade every aspect of our life just imagine how our recent habits would change if the NAND memories suddenly disappeared To take a picture it would be necessary to find a film as well as a traditional camera disks or even magnetic tapes would be used to record a video or to listen a song and a cellular phone would return to be a simple mean of communication rather than a multimedia console The development of NAND Flash memories will not be set down on the mere evolution of personal entertainment systems since a new killer application can trigger a further success the replacement of Hard Disk Drives HDDs with Solid State Drives SSDs SSD is made up by a microcontroller and several NANDs As NAND is the technology driver for IC circuits Flash designers and technologists have to deal with a lot of challenges Therefore SSD system developers must understand Flash technology in order to exploit its benefits and countermeasure its weaknesses Inside NAND Flash Memories is a comprehensive guide of the NAND world from circuits design analog and digital to Flash reliability including radiation effects from testing issues to high performance DDR interface from error correction codes to NAND applications like Flash cards and SSDs *Electronics*, 1963 **Wescon/80**, 1980 Shape Memory Polymer-Derived Nanocomposites Ayesha Kausar, 2024-01-11 Shape Memory Polymer derived

Nanocomposites Features to Cutting Edge Advancements summarizes the up to date of fundamentals and applications of the shape memory polymer derived nanocomposites Design and fabrication of shape memory polymeric nanocomposites have gained significant importance in the field of up to date nano materials science and technology In recent times the shape memory polymers and nanocomposites have attracted considerable academic and industrial research interest This feature book will present a state of the art assessment on the versatile shape memory materials The flexibility durability heat stability shape deformability and shape memory features of these polymers have shown dramatic improvements with the nanofiller addition Appropriate choice of the stimuli responsive polymer nanofiller type and content and fabrication strategies may lead to enhanced physicochemical features and stimuli responsive performance Several successful stimuli responsive effects have been achieved in the shape memory nanocomposites such as thermo responsive electro active photo active water moisture responsive pH sensitive etc Consequently the shape memory polymer based nanocomposites have found applications in high tech devices and applications This book initially offers a futuristic knowledge regarding indispensable features of the shape memory polymeric nanocomposites Afterwards the essential categories of the stimuli responsive polymer based nanocomposites have been discussed in terms of recent scientific literature Subsequent sections of this book are dedicated to the potential of shape memory polymer based nanocomposite in various technical fields Significant application areas have been identified as foam materials aerospace radiation shielding sensor actuator supercapacitor electronics and biomedical relevance The book chapters also point towards the predictable challenges and future opportunities in the field of shape memory nanocomposites Provides the essentials of shape memory polymeric nanocomposites Includes important categories of shape memory nanocomposites Presents current technological applications of shape memory polymers and derived nanocomposite in sponges aerospace EMI shielding ionizing radiation shielding sensors actuator supercapacitor electronics and biomedical fields The Effects of Radiation on Electronic Systems George

Messenger, Milton S. Ash, 1992-05-14 **Proceedings** ,1978 *IBM Journal of Research and Development* ,1996
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