

Single Event Phenomena

George C. Messenger
Milton S. Ash

Single Event Phenomena

Jean-Luc Autran, Daniela Munteanu



Single Event Phenomena:

Single Event Phenomena G.C. Messenger, Milton Ash, 2013-11-27 This monograph is written for neophytes students and practitioners to aid in their understanding of single event phenomena It attempts to collect the highlights as well as many of the more detailed aspects of this field into an entity that portrays the theoretical as well as the practical applications of this subject Those who claim that theory is not for them can skip over the earlier chapters dealing with the fundamental and theoretical portions and find what they need in the way of hands on guidelines and pertinent formulas in the later chapters Perhaps after a time they will return to peruse the earlier chapters for a more complete rendition and appreciation of the subject matter It is felt that the reader should have some acquaintance with the electronics of semiconductors and devices some broad atomic physics introduction as well as a respectable level of mathematics through calculus including simple differential equations A large part of the preceding can be obtained informally through job experience self study evening classes as well as from a formal college curriculum *Ionizing Radiation Effects in MOS Devices and Circuits* T. P. Ma, Paul V. Dressendorfer, 1989-04-18 The first comprehensive overview describing the effects of ionizing radiation on MOS devices as well as how to design fabricate and test integrated circuits intended for use in a radiation environment Also addresses process induced radiation effects in the fabrication of high density circuits Reviews the history of radiation hard technology providing background information for those new to the field Includes a comprehensive review of the literature and an annotated listing of research activities in radiation hardness research *Single Event Phenomena* G. C. Messenger, Milton Ash, 2014-09-01 **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 metalOxideOxide 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 **Congress Proceedings** William C. Dewey, Martha Edington, Michael

Fry,2013-10-02 Congress Proceedings *Soft Errors in Modern Electronic Systems* Michael Nicolaidis,2010-09-24 This book provides a comprehensive presentation of the most advanced research results and technological developments enabling understanding qualifying and mitigating the soft errors effect in advanced electronics including the fundamental physical mechanisms of radiation induced soft errors the various steps that lead to a system failure the modelling and simulation of soft error at various levels including physical electrical netlist event driven RTL and system level modelling and simulation hardware fault injection accelerated radiation testing and natural environment testing soft error oriented test structures process level device level cell level circuit level architectural level software level and system level soft error mitigation techniques The book contains a comprehensive presentation of most recent advances on understanding qualifying and mitigating the soft error effect in advanced electronic systems presented by academia and industry experts in reliability fault tolerance EDA processor SoC and system design and in particular experts from industries that have faced the soft error impact in terms of product reliability and related business issues and were in the forefront of the countermeasures taken by these companies at multiple levels in order to mitigate the soft error effects at a cost acceptable for commercial products In a fast moving field where the impact on ground level electronics is very recent and its severity is steadily increasing at each new process node impacting one after another various industry sectors as an example the Automotive Electronics Council comes to publish qualification requirements on soft errors research and technology developments and industrial practices have evolve very fast outdated the most recent books edited at 2004 **Scientific and Technical Aerospace Reports**

,1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database Radiation Effects on Integrated Circuits and Systems for Space Applications Raoul Velazco,Dale McMorrow,Jaime Estela,2019-04-10 This book provides readers with invaluable overviews and updates of the most important topics in the radiation effects field enabling them to face significant challenges in the quest for the insertion of ever higher density and higher performance electronic components in satellite systems Readers will benefit from the up to date coverage of the various primary classical sub areas of radiation effects including the space and terrestrial radiation environments basic mechanisms of total ionizing dose digital and analog single event transients basic mechanisms of single event effects system level SEE analysis device level circuit level and system level hardening approaches and radiation hardness assurance Additionally this book includes in depth discussions of several newer areas of investigation and current challenges to the radiation effects community such as radiation hardening by design the use of Commercial Off The Shelf COTS components in space missions CubeSats and SmallSats the use of recent generation FPGA s in space and new approaches for radiation testing and validation The authors provide essential background and fundamentals in addition to information on the most recent advances and challenges in the sub areas of radiation effects Provides a concise introduction to the fundamentals of radiation effects latest research results

and new test methods and procedures Discusses the radiation effects and mitigation solutions for advanced integrated circuits and systems designed to operate in harsh radiation environments Includes coverage of the impact of Small Satellites in the space industry

Soft Errors Jean-Luc Autran, Daniela Munteanu, 2017-12-19 Soft errors are a multifaceted issue at the crossroads of applied physics and engineering sciences Soft errors are by nature multiscale and multiphysics problems that combine not only nuclear and semiconductor physics material sciences circuit design and chip architecture and operation but also cosmic ray physics natural radioactivity issues particle detection and related instrumentation *Soft Errors From Particles to Circuits* addresses the problem of soft errors in digital integrated circuits subjected to the terrestrial natural radiation environment one of the most important primary limits for modern digital electronic reliability Covering the fundamentals of soft errors as well as engineering considerations and technological aspects this robust text Discusses the basics of the natural radiation environment particle interactions with matter and soft error mechanisms Details instrumentation developments in the fields of environment characterization particle detection and real time and accelerated tests Describes the latest computational developments modeling and simulation strategies for the soft error rate estimation in digital circuits Explores trends for future technological nodes and emerging devices *Soft Errors From Particles to Circuits* presents the state of the art of this complex subject providing comprehensive knowledge of the complete chain of the physics of soft errors The book makes an ideal text for introductory graduate level courses offers academic researchers a specialized overview and serves as a practical guide for semiconductor industry engineers or application engineers

Biological Effects and Physics of Solar and Galactic Cosmic Radiation Part B Charles E. Swenberg, Gerda Horneck, E.G. Stassinopoulous, 2012-12-06 Space missions subject human beings or any other target of a spacecraft to a radiation environment of an intensity and composition not available on earth Whereas for missions in low earth orbit LEO such as those using the Space Shuttle or Space Station scenario radiation exposure guidelines have been developed and have been adopted by spacefaring agencies for exploratory class missions that will take the space travellers outside the protective confines of the geomagnetic field sufficient guidelines for radiation protection are still outstanding For a piloted Mars mission the whole concept of radiation protection needs to be reconsidered Since there is an increasing interest of many nations and space agencies in establishing a lunar base and for exploring Mars by manned missions it is both timely and important to develop appropriate risk estimates and radiation protection guidelines which will have an influence on the design and structure of space vehicles and habitation areas of the extraterrestrial settlements This book is the result of a multidisciplinary effort to assess the state of art in our knowledge on the radiation situation during deep space missions and on the impact of this complex radiation environment on the space traveller It comprises the lectures by the faculty members as well as short contributions by the students given at the NATO Advanced Study Institute Biological Effects and Physics of Solar and Galactic Cosmic Radiation held in Armacao de Pera Portugal 12-23 October 1991

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