

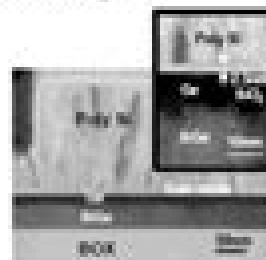
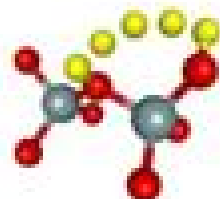


Radiation Effects in Emerging Electronic Materials and Devices: Results



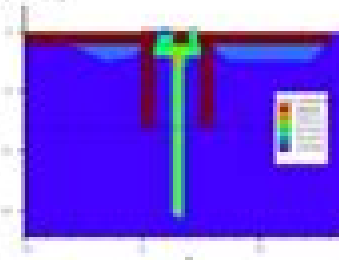
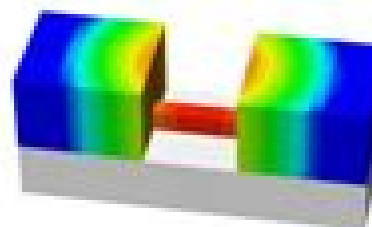
Radiation Response of New Materials

- Incorporation of new materials *dramatically* impacts radiation response
- HfO_2 -based dielectrics and emerging high-k materials tested; HfSiON is very promising
- Substrate engineering (strained Si, Si orientations, Si/SiGe, SOI) offers possibility for single-event hardening



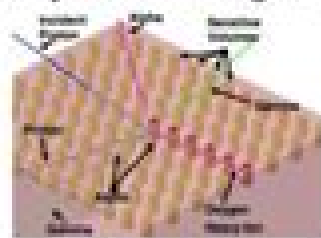
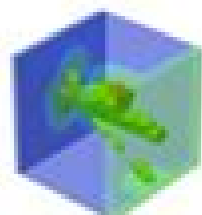
Impact of New Device Structures

- New device technologies strongly impact single-event response and TID leakage current
- SiGe HBTs, strained Si CMOS, ultra-small bulk CMOS exhibit complicated charge collection mechanisms
- Floating-body SOI found to exhibit high radiation-induced off-state leakage due to tunneling



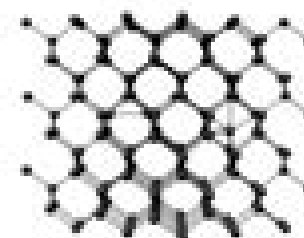
Single Events in New Technologies

- RADSAFE—First multi-scale Monte Carlo single-event/rate-prediction tool
- Passivation/metalization found to *dominate* SEE response in some hardened technologies
- Excellent agreement with on-orbit data; conventional rate-prediction methods underestimate rate by orders of magnitude



Localized Radiation Damage

- First-principles evidence of micro-melting in small devices
- Displacement damage found to depend on substrate doping type
- Monte-Carlo simulation tool for non-ionizing energy loss developed



Radiation Effects On And Dose Enhancement Of Electronic Materials

**United States. Energy Research and
Development Administration.
Technical Information Center**

Radiation Effects On And Dose Enhancement Of Electronic Materials:

Electronics Reliability and Measurement Technology Joseph S. Heyman, 1998-12-31 This book examines electronics reliability and measurement technology It identifies advances in measurement science and technology for nondestructive evaluation and it details common measurement trouble spots Radiation Effects on and Dose Enhancement J. R.

Srour, 1984-01-15 **ISTFA 2019: Proceedings of the 45th International Symposium for Testing and Failure**

Analysis ASM International, 2019-12-01 The theme for the 2019 conference is Novel Computing Architectures Papers will include discussions on the advent of Artificial Intelligence and the promise of quantum computing that are driving disruptive computing architectures Neuromorphic chip designs on one hand and Quantum Bits on the other still in R D will introduce new computing circuitry and memory elements novel materials and different test methodologies These novel computing architectures will require further innovation which is best achieved through a collaborative Failure Analysis community composed of chip manufacturers tool vendors and universities **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 Principles of Radiation Interaction in Matter and Detection Claude Leroy, Pier-Giorgio Rancoita, 2009 This book like its first edition addresses the fundamental principles of interaction between radiation and matter and the principle of particle detectors in a wide scope of fields from low to high energy including space physics and the medical environment It provides abundant information about the processes of electromagnetic and hadronic

energy deposition in matter detecting systems and performance and optimization of detectors In this second edition new sections dedicated to the following topics are included space and high energy physics radiation environment non ionizing energy loss NIEL displacement damage in silicon devices and detectors single event effects detection of slow and fast neutrons with silicon detectors solar cells pixel detectors and additional material for dark matter detectors This book will benefit graduate students and final year undergraduates as a reference and supplement for courses in particle astroparticle and space physics and instrumentation A part of it is directed toward courses in medical physics The book can also be used by researchers in experimental particle physics at low medium and high energy who are dealing with instrumentation

Principles of Radiation Interaction in Matter and Detection (4th Edition) Claude Leroy, 2015-12-17 The fourth edition of this book has been widely revised It includes additional chapters and some sections are complemented with either new ones or an extension of their content In this latest edition a complete treatment of the physics and properties of semiconductors is presented covering transport phenomena in semiconductors scattering mechanisms radiation effects and displacement damages Furthermore this edition presents a comprehensive treatment of the Coulomb scattering on screened nuclear potentials resulting from electrons protons light and heavy ions ranging from very low up to ultra relativistic kinetic energies and allowing one to derive the corresponding NIEL non ionizing energy loss doses deposited in any material The contents are organized into two parts Chapters 1 to 7 cover Particle Interactions and Displacement Damage while the remaining chapters focus on Radiation Environments and Particle Detection This book can serve as reference for graduate students and final year undergraduates and also as supplement for courses in particle astroparticle space physics and instrumentation A section of the book is directed toward courses in medical physics Researchers in experimental particle physics at low medium and high energy who are dealing with instrumentation will also find the book useful [Principles Of Radiation Interaction In Matter And Detection \(2nd Edition\)](#) Claude Leroy, Pier-giorgio Rancoita, 2009-02-26 This book like its first edition addresses the fundamental principles of interaction between radiation and matter and the principle of particle detectors in a wide scope of fields from low to high energy including space physics and the medical environment It provides abundant information about the processes of electromagnetic and hadronic energy deposition in matter detecting systems and performance and optimization of detectors In this second edition new sections dedicated to the following topics are included space and high energy physics radiation environment non ionizing energy loss NIEL displacement damage in silicon devices and detectors single event effects detection of slow and fast neutrons with silicon detectors solar cells pixel detectors and additional material for dark matter detectors This book will benefit graduate students and final year undergraduates as a reference and supplement for courses in particle astroparticle and space physics and instrumentation A part of it is directed toward courses in medical physics The book can also be used by researchers in experimental particle physics at low medium and high energy who are dealing with instrumentation [Applied Mechanics Reviews](#) ,1985 *Advances in Cryogenic Engineering* Peter

Kittel,1996-08-31 Proceedings of the 1995 conference held in Columbus Ohio July 17 21 1995 *Energy Research Abstracts* ,1990 **Scientific and Technical Aerospace Reports** ,1991 Proceedings of the International Instrumentation Symposium ,1989 **Beam Instrumentation** Alex H. Lumpkin,C. Eyberger,1997 Proceedings of the May 1996 workshop including tutorial invited and contributed papers Subjects include a subpicosecond bunch duration measurement technique based on autocorrelation of coherent transition radiation commissioning results of the APS storage ring diagnostics systems bunch instabi Semiconductor International ,1985 *Nuclear Science Abstracts* ,1976 **Transactions of the American Nuclear Society** ,1988 ERDA Energy Research Abstracts ,1977 ERDA Energy Research Abstracts United States. Energy Research and Development Administration,1977 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration. Technical Information Center,1977 **Drug Delivery Technology Development in Canada** Kishor M.Wasan,Ildiko Badea,2019-12-19 Canada continues to have a rich history of ground breaking research in drug delivery within academic institutions pharmaceutical industry and the biotechnology community Over the past 30 years numerous Canadian based biotechnology companies have been formed from the inventions conceived and developed within academic institutions that have led to the development of important drug delivery products that have enhanced the landscape of drug therapy in the treatment of cancer to infectious diseases This Special Issue serves to highlight and capture the contemporary progress of drug delivery within the prevailing Canadian context We invite articles on all aspects of drug delivery sciences from pre clinical formulation development to human clinical trials that bring to light the world class research currently undertaken in Canada for this Special Issue

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