

Radiation Effects on Semiconductor Devices:

- Semiconductor devices are affected by 2 general types of radiation damage:
 - **Displacement Damage:** Where incident radiation displaces Si atoms from their lattice sites which alters the electric characteristics of the crystal.
 - **Ionization Damage:** When a high-energy particle travels through a semiconductor, it leaves an ionized track behind. Energy absorbed by the electric ionization in insulating layers (ex. SiO_2) pushes out charge carriers which leads to unintended concentrations of charge. This in turn creates parasitic fields inside the device.
- *Note: Devices vary in their sensitivity to these effects; it depends primarily on the type of radiation encountered and the nature to the specific device.*

Radiation Damage In Semiconductors Proc

G.G. Bentini,A. Golanski,S. Kalbitzer



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Physics of Radiation Effects in Crystals R.A. Johnson,A.N. Orlov,2012-12-02 Physics of Radiation Effects in Crystals is presented in two parts The first part covers the general background and theory of radiation effects in crystals including the theory describing the generation of crystal lattice defects by radiation the kinetic approach to the study of the disposition of these defects and the effects of the diffusion of these defects on alloy compositions and phases Specific problems of current interest are treated in the second part and include anisotropic dimensional changes in x uranium zirconium and graphite acceleration of thermal creep in reactor materials and radiation damage of semiconductors and superconductors

Semiconductors and Semimetals ,2014-05-14 Semiconductors and Semimetals *Neutron Bombardment Reduction of Transistor Current Gain* C. A. Goben,1964 *October 1* E Gutsche,K. Müller,P. Görlich,2022-07-18 No detailed description available for October 1 Second Symposium on Protection Against Radiations in Space Arthur Reetz,1965 **The**

Physics of Microfabrication Ivor Brodie,Julius J. Muray,2013-11-11 The Physical Electronics Department of SRI International formerly Stanford Research Institute has been pioneering the development of devices fabricated to submicron tolerances for well over 20 years In 1961 a landmark paper on electron beam lithography and its associated technologies was published by K R Shoulderst then at SRI which set the stage for our subsequent efforts in this field He had the foresight to believe that the building of such small devices was actually within the range of human capabilities As a result of this initial momentum our experience in the technologies associated with microfabrication has become remarkably comprehensive despite the relatively small size of our research activity We have frequently been asked to deliver seminars or provide reviews on various aspects of micro fabrication These activities made us aware of the need for a comprehensive overview of the physics of microfabrication We hope that this book will fill that need SC-R ,1964 **Compound Semiconductor Integrated Circuits** Tho T. Vu,2003-01-01 This is the book version of a special issue of the International Journal of High Speed Electronics and Systems reviewing recent work in the field of compound semiconductor integrated circuits There are fourteen invited papers covering a wide range of applications frequencies and materials These papers deal with digital analog microwave and millimeter wave technologies devices and integrated circuits for wireline fiber optic lightwave transmissions and wireless radio frequency microwave and millimeter wave communications In each case the market is young and experiencing rapid growth for both commercial and millitary applications Many new semiconductor technologies compete for these new markets leading to an alphabet soup of semiconductor materials described in these papers The book also includes three papers focused on radiation effects and reliability in III V semiconductor electronics which are useful for reference and future directions Moreover reliability is covered in several papers separately for certain process technologies Contents Present and Future of High Speed Compound Semiconductor IC s T Otsuji The Transforming MMIC E J Martinez Distributed Amplifier for Fiber Optic Communication Systems H Shigematsu et al Microwave GaN Based Power Transistors

on Large Scale Silicon Wafers S Manohar et al Radiation Effects in High Speed III V Integrated Circuits T R Weatherford Radiation Effects in III V Semiconductor Electronics B D Weaver et al Reliability and Radiation Hardness of Compound Semiconductors S A Kayali and other papers Readership Engineers scientists and graduate students working on high speed electronics and systems and in the area of compound semiconductor integrated circuits **Radiation Damage and**

Defects in Semiconductors The institute of physics,IUPAPand U. S. Air Force,1973 *Gettering Defects in Semiconductors* Victor A. Perevostchikov,Vladimir D. Skoupov,2005-12-12 Gettering Defects in Semiconductors fulfills three basic purposes to systematize the experience and research in exploiting various gettering techniques in microelectronics and nanoelectronics to identify new directions in research particularly to enhance the perspective of professionals and young researchers and specialists to fill a gap in the contemporary literature on the underlying semiconductor material theory The authors address not only well established gettering techniques but also describe contemporary trends in gettering technologies from an international perspective The types and properties of structural defects in semiconductors their generating and their transforming mechanisms during fabrication are described The primary emphasis is placed on classifying and describing specific gettering techniques their specificity arising from both their position in a general technological process and the regimes of their application This book addresses both engineers and material scientists interested in semiconducting materials theory and also undergraduate and graduate students in solid state microelectronics and nanoelectronics A comprehensive list of references provides readers with direction for further reading **Point**

Defects in Solids James H. Crawford, Lawrence M. Slifkin,2012-12-06 Volume 1 of Point Defects in Solids has as its major emphasis defects in ionic solids Volume 2 now extends this emphasis to semiconductors The first four chapters treat in some detail the creation kinetic behavior inter actions and physical properties of both simple and composite defects in a variety of semiconducting systems Also included as in Vol 1 are chapters on special topics namely phonon defect interactions and defects in organic crystals Defect behavior in semiconductors has been a subject of considerable interest since the discovery some twenty five years ago that fast neutron irradiation profoundly affected the electrical characteristics of germanium and silicon Present day interest has been stimulated by such semiconductor applications as solar cell power plants for space stations and satellites and semiconductor particle and y ray detectors since in both radiation damage can cause serious deterioration Of even greater practical concern is the need to understand particle damage in order to capitalize upon the develop ing technique of ion implantation as a means of device fabrication Although the periodic international conferences on radiation effects in semiconductors have served the valuable function of summarizing the extensive work being done in this field these proceedings are much too detailed and lack the background discussion needed to make them useful to the novice

Physics Of Semiconductors, The - Proceedings Of The Xxi International Conference (In 2 Volumes) Ping Jiang,Hou-zhi Zheng,1993-03-31 The 21st conference proceedings continue the tradition of the ICPS series The proceedings cover all

aspects of semiconductor physics including those related to materials processing and devices Plenary and invited speakers address areas of major interest **Publications, Reports, and Papers for 1961- from Oak Ridge National Laboratory**
Oak Ridge National Laboratory,1964 **Semiconductor Fabrication** Dinesh C. Gupta,1989 *Physics of Semiconductor Devices* V. K. Jain,Abhishek Verma,2013-11-27 The purpose of this workshop is to spread the vast amount of information available on semiconductor physics to every possible field throughout the scientific community As a result the latest findings research and discoveries can be quickly disseminated This workshop provides all participating research groups with an excellent platform for interaction and collaboration with other members of their respective scientific community This workshop s technical sessions include various current and significant topics for applications and scientific developments including Optoelectronics VLSI ULSI Technology Photovoltaics MEMS Sensors Device Modeling and Simulation High Frequency Power Devices Nanotechnology and Emerging Areas Organic Electronics Displays and Lighting Many eminent scientists from various national and international organizations are actively participating with their latest research works and also equally supporting this mega event by joining the various organizing committees **Deep Implants: Fundamentals and Applications** G.G. Bentini,A. Golanski,S. Kalbitzer,1989-01-01 Deep implants are produced by the high energy implantation of impurities in a host material The thus created subsurface layers have properties that are different from the very surface and the bulk and show great promise for application in the electronics industry *Miscellaneous Publication - National Bureau of Standards* United States. National Bureau of Standards,1934 *The Physics of Micro/Nano-Fabrication* Ivor Brodie,Julius J. Muray,1992 In this revised and expanded edition the authors provide a comprehensive overview of the tools technologies and physical models needed to understand build and analyze microdevices Students specialists within the field and researchers in related fields will appreciate their unified presentation and extensive references **Annual Report**,1967 Nuclear Science Abstracts ,1975-02

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