

# RADIATION EFFECTS IN SEMICONDUCTORS



Edited by  
**Krzysztof Iniewski**



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# Radiation Effects In Semiconductors

**Joseph John Loferski**

## Radiation Effects In Semiconductors:

**Radiation Effects in Semiconductors and Semiconductor Devices** V. S. Vavilov,2012-12-06    Radiation Effects in Advanced Semiconductor Materials and Devices C. Claeys,E. Simoen,2013-11-11 In the modern semiconductor industry there is a growing need to understand and combat potential radiation damage problems Space applications are an obvious case but beyond that today s device and circuit fabrication rely on increasing numbers of processing steps that involve an aggressive environment where inadvertant radiation damage can occur This book is both aimed at post graduate researchers seeking an overview of the field and will also be immensely useful for nuclear and space engineers and even process engineers A background knowledge of semiconductor and device physics is assumed but the basic concepts are all briefly summarized Finally the book outlines the shortcomings of present experimental and modeling techniques and gives an outlook on future developments

**Radiation Effects in Semiconductors** ,1967    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

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*Radiation Effects on Semiconductor Devices* Los Alamos Scientific Laboratory,1961    Radiation effects in semiconductors: proceedings, ed Santa Fe Conference on Radiation Effects in Semiconductors, 1967,    Radiation Effects in Semiconductors ,1977    Radiation Effects in Semiconductors Aerospace Research Laboratories (U.S.),BROWN UNIV

PROVIDENCE R I.,Brown University. Division of Engineering,N. Koren,M. P. Esposito,United States. Air Force. Systems Command. Research and Technology Division,1964 The first part of the report contains information of use to persons engaged in irradiation experiments involving electrons or protons with energies between 0 and 400 KeV Range energy curves for these particles based on a critical review of the literature are presented A circuit for stabilizing the output voltage and current of a Van De Graaff machine is described The results of a calibration of the machine based on a p gamma reaction are presented The second section describes radiation damage experiments in GaAs based on studies of changes in recombination radiation induced by electron beam injection The third section is concerned with an experiment designed to demonstrate the existence of a photovoltage between two parts of a semiconductor with different lifetimes the lifetime difference having been produced by irradiation Author *Radiation Effects in Semiconductors*,1968 *Radiation Effects in Semiconductors*, 1976

N. B. Urli,James W. Corbett,1977 **RADIATION EFFECTS IN SEMICONDUCTORS & SEMICONDUCTOR DEVICES**

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Graaff machine is described The results of a calibration of the machine based on a p gamma reaction are presented The second section describes radiation damage experiments in GaAs based on studies of changes in recombination radiation induced by electron beam injection The third section is concerned with an experiment designed to demonstrate the existence of a photovoltage between two parts of a semiconductor with different lifetimes the lifetime difference having been produced by irradiation

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Frederick L. Vook,Santa Fe Conference on Radiation Effects in Semiconductors,1968

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