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Radiation Effects in Advanced Semiconductor Materials and Devices. Prof. Cor Claeys, Dr. Eddy Simoen (auth.) 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.

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nuclear and space engineers and even process engineers radiation effects in advanced semiconductor materials and 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 todays device and circuit fabrication rely on

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Radiation Effects in Advanced Semiconductor Materials and Devices (Springer Series in Materials Science) This wide-ranging book summarizes the current knowledge of radiation defects in semiconductors, outlining the shortcomings of present experimental and modelling techniques and giving an outlook on future developments.

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RADIATION EFFECTS IN SEMICONDUCTOR MATERIALS AND DEVICES FOR SPACE APPLICATIONS ... Advanced CMOS Technologies. ... Radiation effects will be caused by parasitic conduction related to. Shallow Trench Isolation oxide: Bulk. Buried oxide for SOI devices.

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There are a plethora of radiation effects in semiconductor devices that vary in magnitude from data disruptions to permanent damage ranging from parametric shifts to complete

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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 inadvertent radiation damage can occur.

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total dose effects have been the most prominent radiation effects in these devices however as technology advances utilizing semiconductor devices such as led under harsh radiation environment have become a more important consideration for radiation effects research ionizing radiation effects are induced by the interaction of an ionizing particle with electronic components defects induced in the

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