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of some recent work on radiation effects in semiconductors. 2. General remarks concerning radiation damage As is well known, high energy particles can produce both transient and permanent changes either at the surface or within the volume of a solid.

## **Radiation effects in solids - ScienceDirect**

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## **Radiation Damage Effects in Solids: Special Topic Volume ...**

Volume is indexed by Thomson Reuters BCI (WoS). Public interest and concern about radiation damage effects has increased during recent times. Nuclear radiation proved to be a precursor for the study of radiation damage effects in solids. In general, all types of radiation, e.g. X-ray, gamma ray, heavy ions, fission fragments and neutrons produce damage effects in materials.

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## **Radiation Effects and Defects in Solids: Vol 175, No 9-10**

OSTI.GOV Journal Article: THE EFFECT OF RADIATION DAMAGE ON THE ELECTRONIC PROPERTIES OF SOLIDS. THE EFFECT OF RADIATION DAMAGE ON

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THE ELECTRONIC PROPERTIES OF SOLIDS. Full Record; Other Related Research; Authors: Mitchell, E W.J. Publication Date: Wed May 01 00:00:00 EDT 1957

## **THE EFFECT OF RADIATION DAMAGE ON THE ELECTRONIC ...**

The variety of radiation effects include a crystalline  $\rightarrow$  amorphous transformation after hundreds or thousands of years, with an associated decrease of several percent in density (e.g.,  $\sim$ 16% in zircon,  $ZrSiO_4$ ), the production of lattice defects in solids that do not undergo amorphism, formation of gas bubbles, potential for enhanced leaching, and radiolytic effects in which radiolysis of ...

## **Radiation Damage - an overview | ScienceDirect Topics**

Radiation can have harmful effects on solid materials as it can degrade their properties so that they are no longer mechanically sound. This is of special concern as it can greatly affect their ability to perform in nuclear reactors and is the emphasis of radiation material science, which seeks to mitigate this danger.

## **Radiation damage - Wikipedia**

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The Course covered a broad range of topics, falling into three general categories:  
Radiation Damage Fundamentals Energetic particles and energy dissipation Atomic displacements and cascades Damage evolution Defect aggregation Microstructural evolution Material Dependent Radiation Damage Phenomena (metals, alloys, semiconductors, intermetallics, ceramics, polymers, biomaterials) Atomic and microstructural effects (e.g., point defects, color centers, extended defects, dislocations, voids ...

## **Radiation Effects in Solids | SpringerLink**

Abstract. An outline is given of the effects of high-energy radiation (photons, neutrons, and charged particles) on solids. Attention is given to the penetration depths of radiations, the production of Frenkel pairs, replacement collisions, disordering collisions, and cascade collisions.

## **RADIATION DAMAGE IN SOLIDS (Journal Article) | OSTI.GOV**

In general, all types of radiation, e.g. X-ray, gamma ray, heavy ions, fission fragments and neutrons produce damage effects in materials. Radiation damage latent tracks in solids find applications in nuclear and elementary particle physics, chemistry, radiobiology, earth sciences, nuclear

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engineering, and a host of other areas such as nuclear safeguards, virus counting, ion track filters, uranium exploration and archaeology.

## **Radiation damage effects in solids : special topic volume ...**

(2001). Alpha irradiation effects in fluoroapatite and strontium titanate. Radiation Effects and Defects in Solids: Vol. 155, No. 1-4, pp. 189-194.

## **Radiation Effects and Defects in Solids**

Voltage calibration, a voltage stabilizing circuit, a current ratio recorder, beam deflection and pulsing and vacuum problems are all described. A brief description of some recent experiments performed with electron accelerators is offered. These include studies of damage threshold, recombination radiation and solar cell radiation damage studies.

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