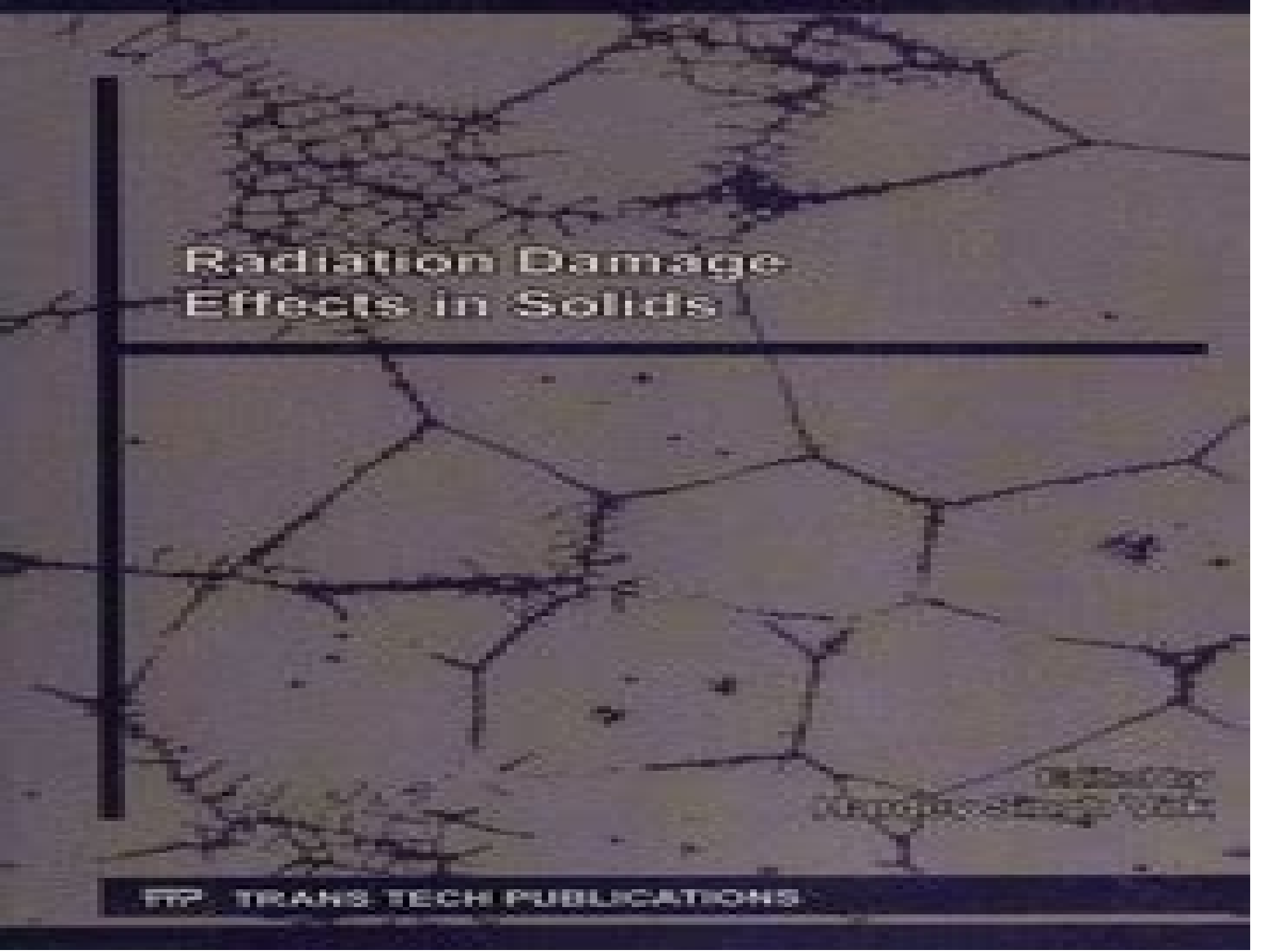
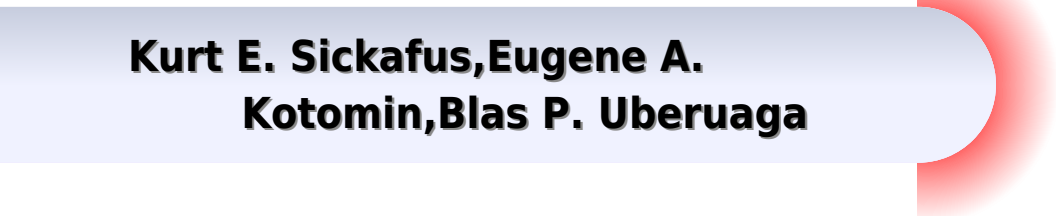


The background of the slide is a grayscale micrograph of a solid material. It shows a complex network of dark, irregular lines representing cracks and grain boundaries. The material has a granular texture. A thick black L-shaped line is overlaid on the left side of the image, with a horizontal segment extending across the middle of the slide.

Radiation Damage Effects in Solids

Radiation Damage In Solids

**Kurt E. Sickafus, Eugene A.
Kotomin, Blas P. Uberuaga**



Radiation Damage In Solids:

Radiation Damage in Solids Douglas S. Billington, James H. Crawford, 1986 *Radiation Damage in Solids* Douglas Sheldon Billington, James H. Crawford (jr.), 1965 **Radiation Damage in Solids** Douglas S. Billington, 1962 Crystalline defects and their detection Radiation damage theory Radiation damage in semiconductors Radiation damage in ionic and covalent crystals Radiation damage in metals Radiation damage in uranium Special seminars *Radiation Damage in Solids: Radiation damage in solids*, 1962 **Radiation Effects in Solids** George Julian Dienes, G. H. Vineyard, 1957 Introduction The interaction of radiation with matter Basic experiments Nature and properties of the defects Annealing of defects Special topics Radiation Damage Effects in Solids Hardev Singh Virk, 2013-07-31 Special topic volume with invited peer reviewed papers only *Radiation damage in solids* Varenna (Italy). Scuola internazionale di fisica, 1960 **Radiation Damage in Solids**, 1962 **Radiation Damage in Solids: Radiation damage in reactor materials**, 1963 *Radiation Effects in Solids* Kurt E. Sickafus, Eugene A. Kotomin, Blas P. Uberuaga, 2007-05-22 This book contains proceedings of the NATO Advanced Study Institute ASI The 32 Course of the International School of Solid State Physics entitled Radiation Effects in Solids held in Erice Sicily Italy July 17 29 2004 at the Ettore Majorana Centre for Scientific Culture EMCS The Course had 83 participants 68 students and 15 instructors representing 23 countries The purpose of this Course was to provide ASI students with a comprehensive overview of fundamental principles and relevant technical issues associated with the behavior of solids exposed to high energy radiation These issues are important to the development of materials for existing fission reactors or future fusion and advanced reactors for energy production to the development of electronic devices such as high energy detectors and to the development of novel materials for electronic and photonic applications particularly on the nanoscale 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 bubbles colloids phase transformations amorphization Macroscopic phenomena e g swelling embrittlement cracking thermal conductivity degradation vii viii Preface Special Topics Swift ion irradiation effects Ion beam modification of materials Nanostructure design via irradiation Nuclear fuels and waste forms Radiation detectors dosimeters phosphors luminescent materials etc

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