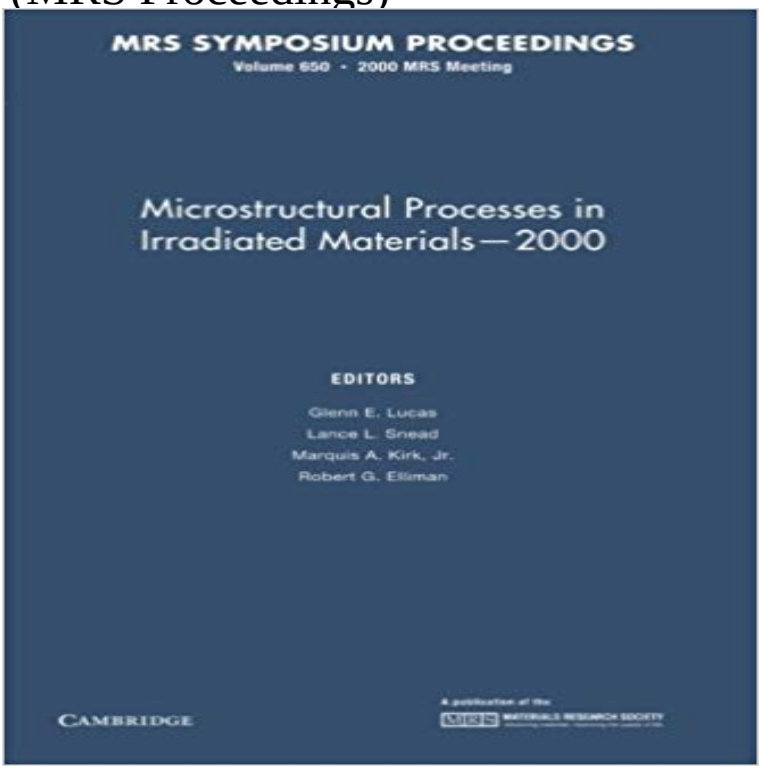
Microstructural Processes in Irradiated Materials - 2000: Volume 650 (MRS Proceedings)



This book reveals progress on a broad range of fronts in radiation damage. Fundamental understanding of microstructural evolution during irradiation is being significantly advanced by improving methods for microstructural characterization coupled with atomistic and multiscale modeling of the defect production and evolution processes. Characterization of microstructures by techniques such as 3D atom probe, high-resolution electron microscopy and positron annihilation are unveiling the nature of numerous types of defects on size scales in the nanometer range. This understanding of microstructural evolution is shedding light on technological problems associated with degradation in nuclear power systems as well as showing opportunities to use radiation to produce useful structures at the nanoscale for a host of applications. It brings together researchers to promote the cross-fertilization of ideas and techniques. Both experimental and theoretical studies, including atomistic and mesoscale modeling, are presented. Topics include: irradiated metals; austenitic stainless steels; radiation effects; irradiated ceramics; ferritic and pressure vessel steels; ion beam synthesis of nanostructures and thin layers; ion-solid interactions for optoelectronics/ photonics and semiconductors and electronic materials.

Microstructural Processes in Irradiated Materials - 2000: Volume 650 An investigation of the mechanical properties of materials at very high rates of loading. Proceedings of the Physical Society, 62(11):676700.

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Paper #: R2.1 **Microstructural Processes in Irradiated Materials - 2000: Volume 650** 1984 - present: Research Staff, Nuclear Materials Science & Technology Division, of Energy, Germantown, MD, 2000 - present, Adjunct Professor, University of Michigan, General Chairman and editor of proceedings, 15th ASTM International Cascade Evolution, Microstructural Processes in Irradiated Materials, Vol. **Microstructural Aspects of Irradiation Damage in A508 - DOE/OSTI** Dr. Devanathan is the Technical Group Manager for the Reactor Materials and .. MA, USA, Materials Research Society Symposium Proceedings, vol. 650, ed. 2000. Displacement Energy Surface in 3C and 6H SiC. Journal of Nuclear In Microstructural Processes in Irradiated Materials, Materials Research Society **Microstructural Processes in Irradiated Materials - 2000: Volume 650** Microstructural Processes in Irradiated Materials - 2000: Volume 650 by Edited by Glenn E. Lucas , Lance L. Snead , Marquis A. Kirk, Jr , Robert G. 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