

MRS SYMPOSIUM PROCEEDINGS

Volume 540 - 1998 MRS Meeting

Microstructural Processes in Irradiated Materials

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Cambridge, MA 02142

Cambridge University Press 1998

CAMBRIDGE

Microstructural Processes In Irradiated Materials

**Charlotte Becquart, Minerals, Metals
and Materials Society**

Microstructural Processes In Irradiated Materials:

Microstructural Processes in Irradiated Materials: Steven J. Zinkle, Glenn E. Lucas, Rodney C. Ewing, James S. Williams, 2014-06-05 Radiation can produce dramatic improvements or degradation in the properties of materials so an understanding of the microstructural changes that occur during irradiation is critical for the development of predictive models. This book first published in 2001 brings together researchers working on different materials systems so that similarities and differences in radiation effects can be compared. More specifically it focuses on the microstructural changes which occur in solids during irradiation with ions, electrons, neutrons, gamma rays and X rays. Materials of interest include metals, intermetallics, semiconductors, insulators and superconductors. Papers from a joint session on Multiscale Modelling of Materials as well as experimental and theoretical studies are also included. Topics include semiconductors, fundamentals of radiation effects in electronic materials, ceramics and polymers, ceramics and nuclear waste materials, austenitic and reactor pressure vessel steels, fundamental aspects of defect production and microstructure evolution in metals and modelling radiation effects in metals.

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Irradiated Materials - 2000: Glenn E. Lucas, Lance L. Snead, Marquis A. Kirk, Jr, Robert G. Elliman, 2014-06-05 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.

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Charlotte Becquart, Minerals, Metals and Materials Society, 2006

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and Characterization with Neutron and Synchrotron Radiation

Gary S. Was, Minerals, Metals and Materials Society, 2012

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Materials and Reactor Pressure Vessel (RPV) Embrittlement and Fusion Materials: Measuring, Modeling and

Managing Irradiation Effects

Gary S. Was, Minerals, Metals and Materials Society, 2010

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Irradiated Materials Charlotte S. Bequart,2005 *Proceedings of the Sixth Symposium on Microstructural Processes in Irradiated Materials (MPIM) in the 2013 Annual Meeting & Exhibition of The Minerals, Metals & Materials Society ... San Antonio, Texas, USA, March 3 - 7, 2014* *Proceedings of the Symposium on Microstructural Processes in Irradiated Materials and on Reactor Pressure Vessel (RPV) Embrittlement and Fusion Materials: Measuring, Modeling and Managing Irradiation Effects, San Francisco, California, USA, 15-19 February 2009* Gary Steven Was,Brian D. Wirth,Zhijie Jiao,2010

Microstructural Processes in Irradiated Materials Charlotte S. Bequart,2005 *Special Issue: Microstructural Processes in Irradiated Materials* Charlotte S. Bequart,2005

Proceedings of the Symposia on Microstructural Processes in Irradiated Materials, and Reactor Pressure Vessel (RPV) Embrittlement and Fusion Materials: Measuring, Modeling and Managing Irradiation Effects as Part of the Annual Meeting of The Minerals, Metals & Materials Society (TMS 2009) ,2010

Microstructural Processes in Irradiated Materials : selected papers from the symposium held as part of the 2003 TMS [The Minerals, Metals & Materials Society] Annual Meeting, San Diego, California, 2-6 March 2003 : [published in a special issue of] Philosophical magazine : structure and properties of condensed matter Charlotte S. Bequart,2005

Comprehensive Nuclear Materials ,2020-07-22 Materials in a nuclear environment are exposed to extreme conditions of radiation temperature and or corrosion and in many cases the combination of these makes the material behavior very different from conventional materials This is evident for the four major technological challenges the nuclear technology domain is facing currently i long term operation of existing Generation II nuclear power plants ii the design of the next generation reactors Generation IV iii the construction of the ITER fusion reactor in Cadarache France iv and the intermediate and final disposal of nuclear waste In order to address these challenges engineers and designers need to know the properties of a wide variety of materials under these conditions and to understand the underlying processes affecting changes in their behavior in order to assess their performance and to determine the limits of operation Comprehensive Nuclear Materials Second Edition Seven Volume Set provides broad ranging validated summaries of all the major topics in the field of nuclear material research for fission as well as fusion reactor systems Attention is given to the fundamental scientific aspects of nuclear materials fuel and structural materials for fission reactors waste materials and materials for fusion reactors The articles are written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource of information Most of the chapters from the first Edition have been revised and updated and a significant number of new topics are covered in completely new material During the ten years between the two editions the challenge for applications of nuclear materials has been significantly impacted by world events public awareness and technological innovation Materials play a key role as enablers of new technologies and we trust that this new edition of Comprehensive Nuclear Materials has captured the key recent developments Critically reviews the major classes and functions of materials supporting the selection assessment

validation and engineering of materials in extreme nuclear environments Comprehensive resource for up to date and authoritative information which is not always available elsewhere even in journals Provides an in depth treatment of materials modeling and simulation with a specific focus on nuclear issues Serves as an excellent entry point for students and researchers new to the field **Radiation-induced Changes in Microstructure** F. A. Garner,1987 **Microstructure of Irradiated Materials: Volume 373** Ian M. Robertson,1995-04-03

The focus of the symposium which was held at the 1994 MRS Fall Meeting was on the changes produced in the microstructure of metals ceramics and semiconductors by irradiation with energetic particles This proceedings volume contains invited and contributed papers Among the topics are computer simulation of displacement cascade damage in metals radiation effects in ceramic insulators and computer simulation of thermal annealing effects of self implanted silicon Annotation copyright by Book News Inc Portland OR **Nuclear Reactors** Amir Mesquita,2012-02-10 This book presents a comprehensive review of studies in nuclear reactors technology from authors across the globe Topics discussed in this compilation include thermal hydraulic investigation of TRIGA type research reactor materials testing reactor and high temperature gas cooled reactor the use of radiogenic lead recovered from ores as a coolant for fast reactors decay heat in reactors and spent fuel pools present status of two phase flow studies in reactor components thermal aspects of conventional and alternative fuels in supercritical water cooled reactor two phase flow coolant behavior in boiling water reactors under earthquake condition simulation of nuclear reactors core fuel life control in light water reactors methods for monitoring and controlling power in nuclear reactors structural materials modeling for the next generation of nuclear reactors application of the results of finite group theory in reactor physics and the usability of vermiculite as a shield for nuclear reactor

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