



# Radiation damage in fusion reactors

- Neutron-induced damage in structural materials:
  - As in fission reactors, but recoil atoms are produced by 14 MeV neutrons and have a broader spectrum
  - He produced in reactions
- Damage at the reactor first wall:
  - Ions escape from the hot plasma and erode the wall of the reactor

# Reaction Damage In Reactor Materials Vol

**Shasha Hu**



## Reaction Damage In Reactor Materials Vol:

Fusion Energy Update ,1979      *Creep of Zirconium Alloys in Nuclear Reactors* D. G. Franklin, Glenn E. Lucas, A. L. Bement, Metal Properties Council, 1983      *Nuclear Safety* ,1965      **Nuclear Science Abstracts** ,1975      **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, 1977      Reactor Materials ,1968

**Fundamentals of Nuclear Engineering** Brent J. Lewis, E. Nihan Onder, Andrew A. Prudil, 2017-06-19 Fundamental of Nuclear Engineering is derived from over 25 years of teaching undergraduate and graduate courses on nuclear engineering. The material has been extensively class tested and provides the most comprehensive textbook and reference on the fundamentals of nuclear engineering. It includes a broad range of important areas in the nuclear engineering field: nuclear and atomic theory, nuclear reactor physics, design, control, dynamics, safety, and thermal hydraulics; nuclear fuel engineering and health physics; radiation protection. It also includes the latest information that is missing in traditional texts such as space radiation. The aim of the book is to provide a source for upper level undergraduate and graduate students studying nuclear engineering.      *Energy Research Abstracts* ,1990      *NBS Special Publication* ,1968      **Neutron Standards and Applications** Charles D. Bowman, 1977      **ERDA Research Abstracts** United States. Energy Research and Development Administration, 1976      **Flow and Fracture of Metals and Alloys in Nuclear Environments** ,      Reactor Core Materials ,1968      **Advances in the Technology of Stainless Steels and Related Alloys** ,1965      Index to Conferences Relating to Nuclear Science Willie E. Clark, Carol B. Patterson, Margaret L. Pflueger, 1966      **Government-wide Index to Federal Research & Development Reports** ,1966      ASTM Special Technical Publication ,1983      *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 Technical Abstract Bulletin , **McGraw-Hill Encyclopedia of Environmental Science** Sybil P. Parker, 1980 Covers a broad spectrum of environmental subjects including meteorology climatology ecology conservation pollution and soil conservation in two revised and expanded sections featuring topics of general interest and alphabetically arranged articles on scientific and technical concepts Over 600 illustrations Intended for use by scientists engineers and concerned citizens Published 1980

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