



# Radiation Damage In Metals

**N. L. Peterson, S. D. Harkness**



## **Radiation Damage In Metals:**

**Radiation Damage in Metals** N. L. Peterson, S. D. Harkness, 1976      **Fundamentals of Radiation Materials Science** Gary S. Was, 2007-07-16 This book is an eye opening treatise on the fundamentals of the effects of radiation on metals and alloys When energetic particles strike a solid numerous processes occur that can change the physical and mechanical properties of the material Metals and alloys represent an important class of materials that are subject to intense radiation fields Radiation causes metals and alloys to swell distort blister harden soften and deform This textbook and reference covers the basics of particle atom interaction for a range of particle types the amount and spatial extent of the resulting radiation damage the physical effects of irradiation and the changes in mechanical behavior of irradiated metals and alloys      **Defects and Radiation Damage in Metals** Michael Warwick Thompson, 2000      **Radiation Damage in Metals** N. L. Peterson, S. D. Harkness, 1976      **Defects and Radiation Damage in Metals** M. W. Thompson, 1969 The study of radiation damage in solids generally has been stimulated by the technological demands of nuclear energy and space research Professor Thompson's 1969 book discusses the basic atomic mechanisms which give rise to the main effects induced by radiation in metals since it is in their relatively simple structures that the fundamental processes can be most easily identified The first part of the book describes the nature of lattice defects in metal crystals The presentation leads naturally into the discussion of radiation damage in the second part and recognises the important contribution that the study of irradiated metals has made to our general knowledge of defects The wide coverage of this book includes developments in our understanding of collision cascades of the clustering of point defects and the behaviour of impurities induced by irradiation      **Defects and radiation damage in metals** M. W. Thompson, 1969      **The Modelling of Radiation Damage in Metals Using Ehrenfest Dynamics** Christopher Race, 2011-01-04 Atomistic simulations of metals under irradiation are indispensable for understanding damage processes at time and length scales beyond the reach of experiment Previously such simulations have largely ignored the effect of electronic excitations on the atomic dynamics even though energy exchange between atoms and electrons can have significant effects on the extent and nature of radiation damage This thesis presents the results of time dependent tight binding simulations of radiation damage in which the evolution of a coupled system of energetic classical ions and quantum mechanical electrons is correctly described The effects of electronic excitations in collision cascades and ion channeling are explored and a new model is presented which makes possible the accurate reproduction of non adiabatic electronic forces in large scale classical molecular dynamics simulations of metals      Fundamental Aspects of Radiation Damage in Metals , 1975      *Defects and Radiation Damage in Metals* ,      Effects of Radiation on Structural Materials James A. Sprague, David Kramer, 1979      **Radiation Damage in Metals** N. L. Peterson, S. D. Harkness, 1976      **On the Nature of Radiation Damage in Metals** J. A. Brinkman, 1952      *Progress report (on radiation damage in metals)* R. L. Chaplin, 1970      *FUNDAMENTAL ASPECTS OF RADIATION DAMAGE IN METALS-*

PROCEEDINGS OF AN INTERNATIONAL CONFERENCE- ERDA UNITED STATES ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION- NATIONAL SCIENCE FOUNDATION- ORNL- 2 PARTS. ,      **Electron Radiation**

**Damage in Semiconductors and Metals** James W. Corbett,1966      **Radiation Damage in Metals** N. L. Peterson,S. D. Harkness,1976      The Effect of Nuclear Radiation on Structural Metals Frederic R. Shober,1961 The effect of fast neutron 1 Mev irradiation on the mechanical properties of structural metals and alloys was studied Although the yield strengths and ultimate tensile strengths are increased substantially for most materials the ductility suffers severe decreases This report presents these changes in properties of several structural metals for a number of neutron exposures within the  $10 \times 10$  to the  $18^{\text{th}}$  power to  $50 \times 10$  to the  $21^{\text{st}}$  power  $\text{n sq cm}$  range Data summarizing these effects on several classes of materials such as carbon steels low alloy steels stainless steels Zr base alloys ni base alloys Al base alloys and Ta are given Additional data which show the influence of irradiation temperatures and of post irradiation annealing on the radiation induced property changes are also given and discussed Increases as great as 175% in yield strength 100% in ultimate strength and decreases of 80% in total elongation are reported for fast neutron exposures as great as  $510$  to the  $21^{\text{st}}$  power  $\text{n sq cm}$  Author

Some Comments on the Effects of Radiation Damage in Metals and Alloys and the Possible Use of Ultrasonic Attenuation as a Means of Examining Such Damage Rohn Truell,WATERTOWN ARSENAL MA.,1952      Radiation Damage in Some Refractory Metals R.P. Agarwala,2005-07-01 In Chapter 1 of this timely book radiation damage in vanadium niobium molybdenum and tungsten is discussed at the atomic level treating for instance third stage recovery in terms of self interstitials being mobile traps for predominantly vacancies Higher recovery stages are treated by using various techniques such as electrical resistivity electron microscopy positron annihilation spectroscopy and computer simulation thus revealing vacancy cluster break up in stage V and interstitial cluster annealing in stage VI      **Fundamental Aspects of Radiation Damage in Metals** ,1975

## **Radiation Damage In Metals** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Radiation Damage In Metals**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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