



Gary S. Was

Fundamentals of Radiation Materials Science

Metals and Alloys

 Springer

Fundamentals Of Radiation Materials Science Metals And Alloys

K. Linga Murthy, Indrajit Charit



Fundamentals Of Radiation Materials Science Metals And Alloys:

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Fundamentals of Radiation Materials Science GARY S. WAS, 2016-07-08 The revised second edition of this established text offers readers a significantly expanded introduction to the effects of radiation on metals and alloys It describes the various processes that occur when energetic particles strike a solid inducing changes to the physical and mechanical properties of the material Specifically it covers particle interaction with the metals and alloys used in nuclear reactor cores and hence subject to intense radiation fields It describes 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 Updated throughout some major enhancements for the new edition include improved treatment of low and intermediate energy elastic collisions and stopping power expanded sections on molecular dynamics and kinetic Monte Carlo methodologies describing collision cascade evolution new treatment of the multi frequency model of diffusion numerous examples of RIS in austenitic and ferritic martensitic alloys expanded treatment of in cascade defect clustering cluster evolution and cluster mobility new discussion of void behavior near grain boundaries a new section on ion beam assisted deposition and reorganization of hardening creep and fracture of irradiated materials Chaps 12 14 to provide a smoother and more integrated transition between the topics The book also contains two new chapters Chapter 15 focuses on the fundamentals of corrosion and stress corrosion cracking covering forms of corrosion corrosion thermodynamics corrosion kinetics polarization theory passivity crevice corrosion and stress corrosion cracking Chapter 16 extends this treatment and considers the effects of irradiation on corrosion and environmentally assisted corrosion including the effects of irradiation on

water chemistry and the mechanisms of irradiation induced stress corrosion cracking The book maintains the previous style concepts are developed systematically and quantitatively supported by worked examples references for further reading and end of chapter problem sets Aimed primarily at students of materials sciences and nuclear engineering the book will also provide a valuable resource for academic and industrial research professionals Reviews of the first edition nomenclature problems and separate bibliography at the end of each chapter allow to the reader to reach a straightforward understanding of the subject part by part this book is very pleasant to read well documented and can be seen as a very good introduction to the effects of irradiation on matter or as a good references compilation for experimented readers Pauly Nicolas Physicalia Magazine Vol 30 1 2008 The text provides enough fundamental material to explain the science and theory behind radiation effects in solids but is also written at a high enough level to be useful for professional scientists Its organization suits a graduate level materials or nuclear science course the text was written by a noted expert and active researcher in the field of radiation effects in metals the selection and organization of the material is excellent may well become a necessary reference for graduate students and researchers in radiation materials science L M Dougherty 07 11 2008 JOM the Member Journal of The Minerals Metals and Materials Society *Fundamentals of Radiation Materials Science* Gary S. Was, 2007-07-14 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 *Fundamentals of Materials for Energy and Environmental Sustainability* David S. Ginley, David Cahen, 2011-11-30 How will we meet rising energy demands What are our options Are there viable long term solutions for the future Learn the fundamental physical chemical and materials science at the heart of renewable non renewable energy sources future transportation systems energy efficiency and energy storage Whether you are a student taking an energy course or a newcomer to the field this textbook will help you understand critical relationships between the environment energy and sustainability Leading experts provide comprehensive coverage of each topic bringing together diverse subject matter by integrating theory with engaging insights Each chapter includes helpful features to aid understanding including a historical overview to provide context suggested further reading and questions for discussion Every subject is beautifully illustrated and brought to life with full color images and color coded sections for easy browsing making this a complete educational package *Fundamentals of Materials for Energy and Environmental Sustainability* will enable today s scientists and educate future generations **Proceedings of the 18th International Conference on Environmental Degradation of Materials in Nuclear Power Systems - Water Reactors**

John H. Jackson, Denise Paraventi, Michael Wright, 2018-12-20 This two volume set represents a collection of papers presented at the 18th International Conference on Environmental Degradation of Materials in Nuclear Power Systems Water Reactors. The purpose of this conference series is to foster an exchange of ideas about problems and their remedies in water cooled nuclear power plants of today and the future. Contributions cover problems facing nickel based alloys, stainless steels, pressure vessel and piping steels, zirconium alloys and other alloys in water environments of relevance. Components covered include pressure boundary components, reactor vessels and internals, steam generators, fuel cladding, irradiated components, fuel storage containers and balance of plant components and systems. Proceedings of the 13th World Conference on

Titanium Vasisht Venkatesh, Adam L. Pilchak, John E. Allison, Sreeramamurthy Ankem, Rodney R. Boyer, Julie Christodoulou, Hamish L. Fraser, M. Ashraf Imam, Yoji Kosaka, Henry J. Rack, Amit Chatterjee, Andy Woodfield, 2016-04-26 This book contains the Proceedings of the 13th World Conference on Titanium. **An Introduction to Nuclear Materials** K.

Linga Murty, Indrajit Charit, 2013-01-29 Covering both fundamental and advanced aspects in an accessible way, this textbook begins with an overview of nuclear reactor systems, helping readers to familiarize themselves with the varied designs. Then the readers are introduced to different possibilities for materials applications in the various sections of nuclear energy systems. Materials selection and life prediction methodologies for nuclear reactors are also presented in relation to creep, corrosion and other degradation mechanisms. An appendix compiles useful property data relevant for nuclear reactor applications. Throughout the book, there is a thorough coverage of various materials science principles such as physical and mechanical metallurgy, defects and diffusion, and radiation effects on materials, with serious efforts made to establish structure-property correlations wherever possible. With its emphasis on the latest developments and outstanding problems in the field, this is both a valuable introduction and a ready reference for beginners and experienced practitioners alike.

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

Nanodiamonds in Analytical and Biological Sciences Wesley Wei-Wen Hsiao, Trong-Nghia Le, 2023-09-25 NANODIAMONDS small capIN small cap ANALYTICAL small capAND small cap BIOLOGICAL SCIENCES Comprehensive resource highlighting the significance and applications of fluorescent and non fluorescent nanodiamonds in various domains Nanodiamonds in Analytical and Biological Sciences combines the disciplines of chemistry physics materials science and biology to demonstrate the significance of nanodiamonds offering precise analysis of the impacts and up to date applications of fluorescent and non fluorescent nanodiamonds including in COVID 19 and artificial intelligence with illustrations case studies practical examples and novel perspectives included throughout Edited by two highly qualified scholars with significant experience in the field topics covered include Fundamental properties synthesis mechanisms and functionalization of nanodiamonds and toxicity assessment Fabrication and surface modification of fluorescent nanodiamonds and in vitro and in vivo bioimaging of fluorescent nanodiamonds Nanodiamond enabled drug delivery and nanodiamond for mass spectrometry based analysis of peptides proteins and proteomes Quantum sensing applications in physico chemical and biomedical sensing and perspective and outlook on the future of nanodiamond research Nano scale thermometry of fluorescent nanodiamonds and nanodiamond enabled drug delivery Offering a balanced multidisciplinary and comprehensive overview of the significance of fluorescent and non fluorescent nanodiamonds Nanodiamonds in Analytical and Biological Sciences is an essential resource for academic researchers and industry professionals working in fields spanning chemistry physics materials science and biology

Lunar Science Yann-Henri Chemin, 2022-08-25 There are still many open scientific questions about the moon including whether humans will one day be able to live there This book looks at the history of the moon s orbit and the prospects of in situ lunar science the radiation impact on the lunar surface the resistance of settlement materials on the moon under the conditions of protecting humans on site and the preparation of humans for space missions

Nuclear Corrosion Science and Engineering Damien Feron, 2012-02-21 Corrosion of nuclear materials i e the interaction between these materials and their

environments is a major issue for plant safety as well as for operation and economic competitiveness. Understanding these corrosion mechanisms, the systems and materials they affect, and the methods to accurately measure their incidence is of critical importance to the nuclear industry. Combining assessment techniques and analytical models into this understanding allows operators to predict the service life of corrosion-affected nuclear plant materials and to apply the most appropriate maintenance and mitigation options to ensure safe long-term operation. This book critically reviews the fundamental corrosion mechanisms that affect nuclear power plants and facilities. Initial sections introduce the complex field of nuclear corrosion science with detailed chapters on the different types of both aqueous and non-aqueous corrosion mechanisms and the nuclear materials susceptible to attack from them. This is complemented by reviews of monitoring and control methodologies as well as modelling and lifetime prediction approaches. Given that corrosion is an applied science, the final sections review corrosion issues across the range of current and next-generation nuclear reactors and across such nuclear applications as fuel reprocessing facilities, radioactive waste storage, and geological disposal systems. With its distinguished editor and international team of expert contributors, *Nuclear corrosion science and engineering* is an invaluable reference for nuclear metallurgists, materials scientists, and engineers, as well as nuclear facility operators, regulators, and consultants, and researchers and academics in this field. Comprehensively reviews the fundamental corrosion mechanisms that affect nuclear power plants and facilities. Chapters assess different types of both aqueous and non-aqueous corrosion mechanisms and the nuclear materials susceptible to attack from them. Considers monitoring and control methodologies as well as modelling and lifetime prediction approaches.

Nuclear Materials Under Irradiation Serge Bouffard, Nathalie Moncoffre, 2024-01-04. At every stage of the fuel cycle, the materials used are at the heart of nuclear energy safety issues. These materials, which range from steel to polymers, including ceramics, glass, concrete, and graphite, are submitted to extreme stresses combining mechanical, thermal, and irradiation constraints. The objective of this book is to provide a basis for the research of nuclear materials subjected to irradiation, with the desire to contextualize them in the industrial environment. Therefore, most of the chapters are co-authored and contain a mix of basic and applied research. The reader will find chapters on nuclear reactor materials, structural materials, neutron absorbers, moderators, and nuclear fuel, and on materials in waste management, glass, concrete, and organic materials. These material chapters are complemented by more general information on defects and their creation, radiolysis, and irradiation, and characterization tools.

Structural Alloys for Nuclear Energy Applications Robert Odette, Steven Zinkle, 2019-08-15. High-performance alloys that can withstand operation in hazardous nuclear environments are critical to present-day in-service reactor support and maintenance and are foundational for reactor concepts of the future. With commercial nuclear energy vendors and operators facing the retirement of staff during the coming decades, much of the scholarly knowledge of nuclear materials pursuant to appropriate, impactful, and safe usage is at risk. Led by the multi-award-winning editorial team of G. Robert Odette, UCSB, and Steven J. Zinkle, UTK, ORNL, and with

contributions from leaders of each alloy discipline Structural Alloys for Nuclear Energy Applications aids the next generation of researchers and industry staff developing and maintaining steels nickel base alloys zirconium alloys and other structural alloys in nuclear energy applications This authoritative reference is a critical acquisition for institutions and individuals seeking state of the art knowledge aided by the editors unique personal insight from decades of frontline research engineering and management Focuses on in service irradiation thermal mechanical and chemical performance capabilities Covers the use of steels and other structural alloys in current fission technology leading edge Generation IV fission reactors and future fusion power reactors Provides a critical and comprehensive review of the state of the art experimental knowledge base of reactor materials for applications ranging from engineering safety and lifetime assessments to supporting the development of advanced computational models

Elemental Carbon Peter J F Harris, 2024-12-20 The science of carbon materials has experienced a renaissance in recent decades with Nobel prizes having been awarded for the discovery of C₆₀ in 1996 and graphene in 2010 Other areas of carbon science have also flourished with notable advances having been made in the synthesis of diamond by chemical vapour deposition and in the preparation and applications of carbon dots Elemental Carbon provides an overview of the most rapidly developing areas of contemporary carbon science including both well established materials such as graphite and carbon black and new forms such as graphene As well as giving a brief history of each topic the five chapters provide reviews of the latest research covering synthesis chemical and physical properties and applications Aimed at advanced undergraduates postgraduates and other researchers in academia and industry this book provides an invaluable introduction to these increasingly important materials

Materials Under Extreme Conditions A. K. Tyagi, S. Banerjee, 2017-01-13 Materials Under Extreme Conditions Recent Trends and Future Prospects analyzes the chemical transformation and decomposition of materials exposed to extreme conditions such as high temperature high pressure hostile chemical environments high radiation fields high vacuum high magnetic and electric fields wear and abrasion related to chemical bonding special crystallographic features and microstructures The materials covered in this work encompass oxides non oxides alloys and intermetallics glasses and carbon based materials The book is written for researchers in academia and industry and technologists in chemical engineering materials chemistry chemistry and condensed matter physics Describes and analyzes the chemical transformation and decomposition of a wide range of materials exposed to extreme conditions Brings together information currently scattered across the Internet or incoherently dispersed amongst journals and proceedings Presents chapters on phenomena materials synthesis and processing characterization and properties and applications Written by established researchers in the field

Nuclear Corrosion Stefan Ritter, 2020-08-14 Nuclear Corrosion Research Progress and Challenges part of the Green Book series of the EFC builds upon the foundations of the very first book published in this series in 1989 Number 1 Corrosion in the Nuclear Industry This newest volume provides an overview on state of the art research in some of the most important areas of nuclear

corrosion Chapters covered include aging phenomena in light water reactors reprocessing plants nuclear waste disposal and supercritical water and liquid metal systems This book will be a vital resource for both researchers and engineers working within the nuclear field in both academic and industrial environments Discusses industry related aspects of materials in nuclear power generation and how these materials react with the environment Provides comprehensive coverage of the topic as written by noted experts in the field Includes coverage of nuclear waste corrosion Effect of Ion Irradiation on the Properties of Metals and Alloys Piotr Budzyński, 2024-07-31 This book describes the interaction between ions and metallic targets as well as energy loss processes during ion implantation and irradiation Ion bombardments of targets cause changes in surface layer chemical composition radiation defect formation sputtering blistering swelling and ion mixing These effects modify surface topography crystalline structure electrical and tribological properties of metals and alloys The book presents research on the effects of the implantation and irradiation on the friction and wear of modified materials as well as practical applications of ion implantation and irradiation It offers a review of current problems related to the modification of materials via irradiation In addition computer programs for modeling the depth of ions and vacancies in a sample are presented and potential causes of disagreement between modeling and experimental results are described Finally the book provides evidence of the long range effect Effect of Ion Irradiation on the Properties of Metals and Alloys is aimed at academics investigating the properties of metals and alloys after irradiation and or implantation as well as for students of engineering and physical and chemical sciences The book is also useful for those looking for up to date information on these methods and ways of solving related problems and for designers of equipment used in places exposed to high ion irradiation or to cosmic space *High-Entropy Materials: Theory, Experiments, and Applications* Jamieson Brechtel, Peter K. Liaw, 2022-01-03 This book discusses fundamental studies involving the history modelling simulation experimental work and applications on high entropy materials Topics include data driven and machine learning approaches additive manufacturing techniques computational and analytical methods such as density functional theory and multifractal analysis mechanical behavior high throughput methods and irradiation effects The types of high entropy materials consist of alloys oxides and ceramics The book then concludes with a discussion on potential future applications of these novel materials Nonlinear Systems, Vol. 2 Juan F. R. Archilla, Faustino Palmero, M. Carmen Lemos, Bernardo Sánchez-Rey, Jesús Casado-Pascual, 2017-12-21 This book presents an overview of the most recent advances in nonlinear science It provides a unified view of nonlinear properties in many different systems and highlights many new developments While volume 1 concentrates on mathematical theory and computational techniques and challenges which are essential for the study of nonlinear science this second volume deals with nonlinear excitations in several fields These excitations can be localized and transport energy and matter in the form of breathers solitons kinks or quodons with very different characteristics which are discussed in the book They can also transport electric charge in which case they are known as polarobreathers or solectrons Nonlinear excitations can influence

function and structure in biology as for example protein folding In crystals and other condensed matter they can modify transport properties reaction kinetics and interact with defects There are also engineering applications in electric lattices Josephson junction arrays waveguide arrays photonic crystals and optical fibers Nonlinear excitations are inherent to Bose Einstein Condensates constituting an excellent benchmark for testing their properties and providing a pathway for future discoveries in fundamental physics

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