

An Introduction To Nuclear Materials: Fundamentals and Applications

Contributors: Sven C. Vogel, Laura J. Bonales, et al.



An Introduction To Nuclear Materials Fundamentals And Applications

Claude André Degueldre



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Nuclear Materials Pavel V. Tsvetkov, 2021-04 This book examines nuclear materials through select chapters focusing on the impact of reactor technology use of materials data in modeling applications and reasoning in design choices It provides an opportunity to explore contemporary and emerging frontiers Chapters cover such topics as manufacturing approaches forms fundamental considerations and applications as well as highlight contemporary pathways in nuclear material development

Mechanical and Creep Behavior of Advanced Materials Indrajit Charit, Yuntian T. Zhu, Stuart A. Maloy, Peter K. Liaw, 2017-02-04 This collection commemorates the occasion of the honorary symposium that celebrated the 75th birthday and lifelong contributions of Professor K L Murty The topics cover the present status and recent advances in research areas in which he made seminal contributions The volume includes articles on a variety of topics such as high temperature deformation behaviors of materials elevated temperature creep tensile fatigue superplasticity and their micromechanistic interpretation understanding mechanical behavior of HCP metals alloys using crystallographic texture radiation effects on deformation and

creep of materials mechanical behavior of nanostructured materials fracture and fracture mechanisms development and application of small volume mechanical testing techniques and general structure property correlations

Challenges in Mechanics of Time Dependent Materials, Mechanics of Biological Systems and Materials & Micro-and Nanomechanics, Volume 2 Alireza Amirkhizi, Jacob Notbohm, Nikhil Karanjgaokar, Frank W DelRio, 2025-08-07 Challenges in Mechanics of Time Dependent Materials Mechanics of Biological Systems and Materials and Micro and Nanomechanics Volume 2 of the Proceedings of the 2021 SEM Annual Conference Exposition on Experimental and Applied Mechanics the second volume of four from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Experimental Mechanics including papers in the following general technical research areas Characterization Across Length Scales Extreme Conditions Environmental Effects Damage Fatigue and Fracture Structure Function and Performance Rate Effects in Elastomers Viscoelasticity Viscoplasticity Research in Progress

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Ion-Irradiation-Induced Damage in Nuclear Materials Diana Bachiller Perea, 2018-09-26 This thesis investigates the behavior of two candidate materials a SiO₂ and MgO for applications in fusion e.g. the International Thermonuclear Experimental Reactor ITER and Generation IV fission reactors Both parts of the thesis the development of the ionoluminescence technique and the study of the ion irradiation effects on both materials are highly relevant for the fields of the ion beam analysis techniques and irradiation damage in materials The research presented determines the microstructural changes at different length scales in these materials under ion irradiation In particular it studies the effect of the irradiation temperature using several advanced characterization techniques It also provides much needed insights into the use of these materials at elevated temperatures Further it discusses the development of the ion beam induced luminescence technique in different research facilities around the globe a powerful in situ spectroscopic characterization method that until now was little known Thanks to its relevance rigour and quality this thesis has received two prestigious awards in Spain and France

Nuclear Science Abstracts, 1975

The Analysis of Nuclear Materials and Their Environments Claude André Degueldre, 2017-10-11 This book provides an overview of passive and interactive analytical techniques for nuclear materials The book aims to update readers on new techniques available and provide an introduction for those who are new to the topic or are looking to move into actinides and nuclear materials science The characterization of actinide species and radioactive materials is vital for understanding how these elements and radioactive isotopes are formed and behave and how these materials can be improved The analysis of the actinides or radioactive materials goes beyond spent fuel science to the applicable complete fuel cycle and including analysis of reactor materials

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[\$\text{hno}_3 + \text{mg} + \text{c}_2\text{h}_3\text{o}_2 + 2 \text{hc}_2\text{h}_3\text{o}_2 \rightarrow \text{mg} + \text{no}_3 + 2 \text{chemical equation}\$](#) - Aug 11 2023

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