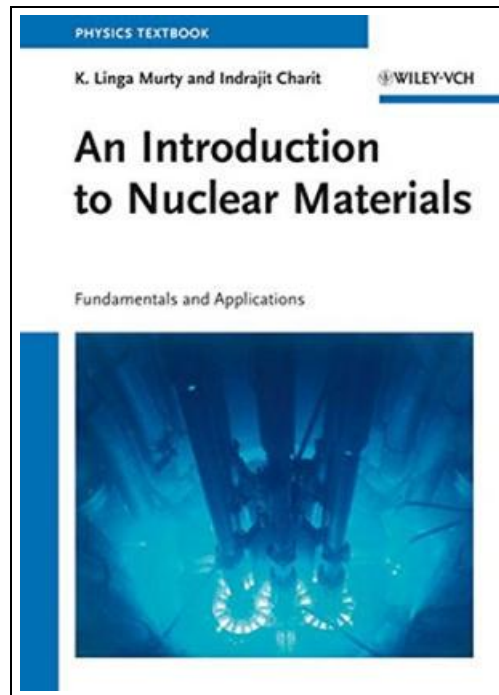


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(Prof. Tyson Hilpert)

AN INTRODUCTION TO NUCLEAR MATERIALS



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Wiley VCH Verlag GmbH Dez 2012, 2012. Taschenbuch. Condition: Neu. Neuware - In diesem Buch geht es um Einsatzmöglichkeiten verschiedener Materialien in der Kernenergietechnik. Nach einem allgemeinen Überblick über Aufbau und Funktion von Kernreaktoren werden die verschiedenen Systeme einzeln besprochen. Die letzten Kapitel befassen sich mit Spezialthemen wie Reaktoren für die Raumfahrt und Fusionsreaktoren. Die Autoren legen viel Wert darauf, Struktur-Eigenschafts-Beziehungen herauszustellen und naturwissenschaftliche Prinzipien aus vielen Disziplinen zu erfassen. Jedes Kapitel wird durch eine Zusammenfassung, Literaturhinweise und Übungsaufgaben abgeschlossen. Kenndaten, die man für Anwendungen in der Praxis braucht, stellt ein Anhang übersichtlich zusammen. 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. 382 pp. Englisch.



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