



Proceedings of the  
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on Reactor Dosimetry

# Reactor Dosimetry

in the 21st Century

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# Reactor Dosimetry In The 21st Century

**R Sanford**



## **Reactor Dosimetry In The 21st Century:**

**Reactor Dosimetry in the 21st Century** Jan Wagemans, Hamid Ait Abderrahim, 2003 This book presents the state of the art in reactor dosimetry as applied to nuclear power plants and to high performance research reactors accelerator driven systems and spallation sources The reader will also find the latest advances in computer code development for radiation transport and shielding In addition the book focuses on radiation measurement techniques **Health Physics in the 21st**

**Century** Joseph John Bevelacqua, 2008-06-25 Adopting a proactive approach and focusing on emerging radiation generating technologies Health Physics in the 21st Century meets the growing need for a presentation of the relevant radiological characteristics and hazards As such this monograph discusses those technologies that will affect the health physics and radiation protection profession over the decades to come After an introductory overview the second part of this book looks at fission and fusion energy followed by a section devoted to accelerators while the final main section deals with radiation on manned space missions Throughout the author summarizes the relevant technology and scientific basis while providing over 200 problems plus solutions to illustrate and amplify the text Twelve appendices add further background material to support and enrich the topics addressed in the text making this invaluable reading for students and lecturers in physics biophysicists clinical nuclear and radiation physicists as well as physicists in industry *Physics and Engineering of Radiation Detection*

Syed Naeem Ahmed, 2014-11-20 Physics and Engineering of Radiation Detection presents an overview of the physics of radiation detection and its applications It covers the origins and properties of different kinds of ionizing radiation their detection and measurement and the procedures used to protect people and the environment from their potentially harmful effects The second edition is fully revised and provides the latest developments in detector technology and analyses software Also more material related to measurements in particle physics and a complete solutions manual have been added Discusses the experimental techniques and instrumentation used in different detection systems in a very practical way without sacrificing the physics content Provides useful formulae and explains methodologies to solve problems related to radiation measurements Contains many worked out examples and end of chapter problems Detailed discussions on different detection media such as gases liquids liquefied gases semiconductors and scintillators Chapters on statistics data analysis techniques software for data analysis and data acquisition systems **Properties and Applications of Silicon Carbide** Rosario

Gerhardt, 2011-04-04 In this book we explore an eclectic mix of articles that highlight some new potential applications of SiC and different ways to achieve specific properties Some articles describe well established processing methods while others highlight phase equilibria or machining methods A resurgence of interest in the structural arena is evident while new ways to utilize the interesting electromagnetic properties of SiC continue to increase Californium-252 Isotope for 21st Century Radiotherapy J.G. Wierzbicki, 2012-12-06 Californium 252 is a neutron emitter with a high specific activity making it useful in a variety of applications the most spectacular of which is in brachytherapy for cancer patients Radiation oncology has



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