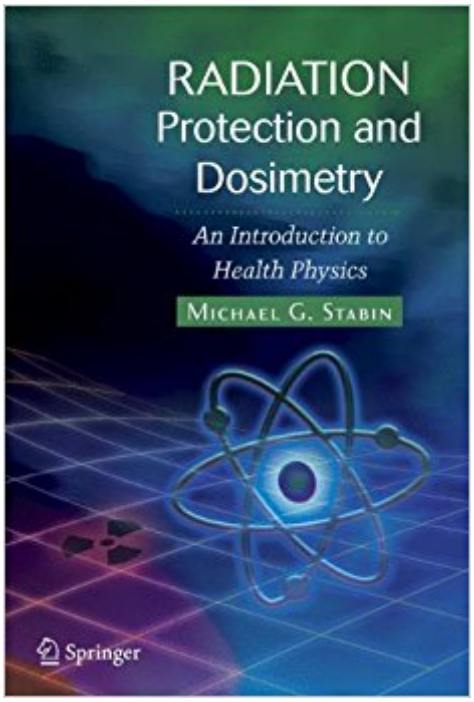
Radiation Protection And Dosimetry: An Introduction To Health Physics



Synopsis

This book provides a comprehensive yet accessible overview of all relevant topics in the field of radiation protection (health physics). The text is organized to introduce the reader to basic principles of radiation emission and propagation, to review current knowledge and historical aspects of the biological effects of radiation, and to cover important operational topics such as radiation shielding and dosimetry. The authorâ ™s website contains materials for instructors including PowerPoint slides for lectures and worked-out solutions to end-of-chapter exercises. The book serves as an essential handbook for practicing health physics professionals.

Book Information

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Customer Reviews

From the reviews: "This introduction to health physics is meant to serve as the basis for a two-course series in the study of radiation protection. â | The book is meant for individuals wishing to study radiation protection/health physics. â | the chapters discuss advanced concepts and mathematical models that are appropriate individuals seeking an in-depth understanding of radiation protection. â | very useful as teaching text. It is clear and concise and the problems and examples further elucidate the material." (Dean W. Broga, Doodyâ ™s Review Service, August, 2008) â œThe book, provides a definition for HP and a broad overview of the field. â | a comprehensive text providing an overview of all relevant topics of HP. â | the book can serve either as a reference for the practising HP or as a text for a course. â | present the most up-to-date treatment of the topics covered.â • (Michael P. Grissom, Radiation Protection Dosimetry, Vol. 138 (4), 2010)

This comprehensive text provides an overview of all relevant topics in the field of radiation protection (health physics). Radiation Protection and Dosimetry serves as an essential handbook for practicing health physics professionals, and is also ideal as a teaching text for courses at the university level. The book is organized to introduce the reader to basic principles of radiation decay and interactions, to review current knowledge and historical aspects of the biological effects of radiation, and to cover important operational topics such as radiation shielding and dosimetry. In addition to presenting the most up to date treatment of the topics and references to the literature, most chapters contain numerical problems with their solutions for use in teaching or self assessment. One chapter is devoted to Environmental Health Physics, which was written in collaboration with leading professionals in the area.

As a grad student you are looking for clear and concise instruction for the subject you are learning. I've got experience with a number of technical books in the physics field and this is the most accessible one I've encountered yet. The author lingers over important point and doesn't waste time on derivations when not necessary. Even if you are assigned a different book for a course in Health Physics or Radiation Protection, picking this one up as a reference will serve you well.

Some specific operational topics included into the book are not present in similar books.This, in my opinion, makes attractive Radiation Protection and Dosimetry. An introduction to Healyh Physics

Good

Very good book. Highly recommended for someone (student or teacher) interested in this field of study.

I was also looking forward to this book - something concise yet clear to give to new trainees. I'm very disappointed with the quality of the graphics. Some images are so dark you cannot make out what they are, others have been scaled such that the resolution is so low you can see the pixels. Some of the charts are straight from excel. I appreciate that borrowing some images may lower the cost, but this looks quite amateur considering the quality of the text in some of the chapters.

This is a much needed book. I good modern overview of what you would encounter in the field of

radiation protection and dosimetry. The coverage of standards and their development is often missed in other works. Since you will spend a great deal of time referring to these standards knowing the actors and history is important. As someone in the field I would have liked to have seen a little more on international standards development. It was very refreshing to see a text where equations were defined clearly. So many physics books seem to revel in making you figure out that particulars authors flavor of equation definition.I have found the book to be a great general reference and starting point for those new to the field. It is actually an enjoyable read. And having a joke thrown in once and a while was great.

This is an excellent book for students of radiation protection and dosimetry. It provides a great overview of health physics from radioisotope decay to non-ionizing radiation. The technical content is balanced with good practical examples. I would like to recommend this book for anyone studying health physics or preparing for the certification by the American Board of Health Physics.

Good source of information on radioactive decay. I also likeÂ Atomic Power: Necessary Evil or Virtually Uncontrollable Force that's Wrecking the Planet?Â which deals with radioactive decay chemistry.

Protection in Medical Radiography, 7e Radiation Protection in Medical Radiography, 7e Radiation Protection in Medical Radiography, 6e Permissible Dose: A History of Radiation Protection in the Twentieth Century