



Radiation Protection: A Guide for Scientists, Regulators and Physicians

By Jacob Shapiro

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This highly successful manual has served for nearly three decades as the definitive guide to the safe use of radioactive materials. Completely revised and updated, the fourth edition presents a new dimension by adding coverage of nonionizing radiation, and is thus concerned with the entire field of radiation protection.

The author takes the novel approach of introducing the whole range of energies possessed by particles and electromagnetic waves at the beginning of the text, thus integrating coverage of ionizing and nonionizing radiation rather than considering them as two separate disciplines. He goes on to cover the entire spectrum of radiation sources, including radionuclides, x-ray machines, accelerators, nuclear reactors, power lines, microwave towers, and cellular phones.

With its expanded coverage, including a broader focus on public health issues, this new volume will serve as an important training and reference resource, not only for research scientists, physicians, and engineers, but for regulatory officials, attorneys, engineers, and environmental health and safety professionals. The breadth of citations alone makes this resource invaluable.

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- Sales Rank: #1617857 in Books
- Brand: Brand: Harvard University Press
- Published on: 2002-06-15
- Released on: 2002-06-18
- Original language: English
- Number of items: 1
- Dimensions: 9.46" h x 1.85" w x 8.24" l, 3.44 pounds
- Binding: Hardcover
- 688 pages

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Editorial Review

Review

Jacob Shapiro's well-known and successful text has been completely revised and updated in this fourth edition, expanding on the principles and practices of radiation protection and using updated ICRP quantities and concepts...Coverage of the entire spectrum of radiation protection makes this volume an important training and reference manual for a wide range of disciplines using radiation in science, medicine, academia, industry, and government. A nice touch is the inclusion of web site addresses for government agencies and scientific committees. (Rose Marie Pratt *Health Physics* 2002-10-01)

The coverage is complete, the style simple, the order logical and the whole easy to read. (*Nature*)

The book is very well written and organized into sections so that it may be used by students of various backgrounds and interests. (*American Association of Physics in Medicine*)

It is without doubt the finest publication of its kind. The manual addresses the principles and practices of radiation protection for those nonspecialists whose work in research or the field of medicine requires the use of radiation sources. (*American Journal of Roentgenology*)

About the Author

Jacob Shapiro is former Director of the University Radiation Protection Program and Senior Scientist in the Environmental Health and Safety Office, Harvard University. He is also Lecturer on Biophysics in Environmental Health at the Harvard School of Public Health.

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