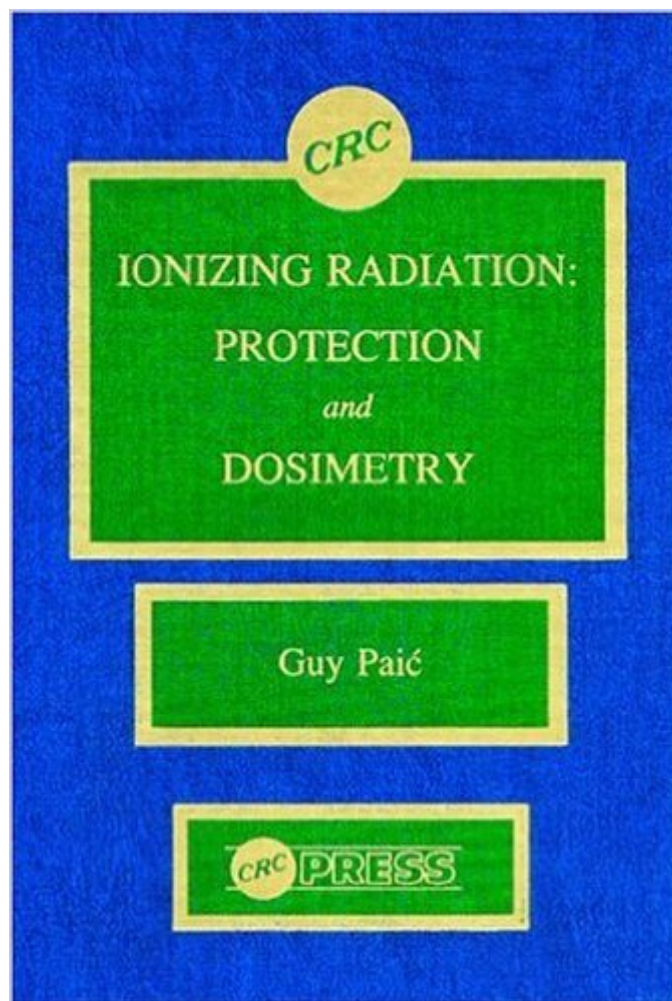


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Ionizing Radiation Protection And Dosimetry



Synopsis

This guidebook explores the basics of the interaction of radiation with matter both from the physical and chemical aspects and the relation to biological effects. Calculations of absorbed doses and dose equivalent and ways to minimize exposure and optimization of radiation protection in light of the latest international recommendations are discussed and examples are shown. Frequently used dosimeters, radiation detectors with an emphasis on TL and chemical dosimeters and the dosimetry of fast neutron beams with special attention to medical uses in neutron therapy are discussed. The latest data on exposure resulting from natural and man-made sources in the environment is also covered.

Book Information

Hardcover: 264 pages

Publisher: CRC Press; 1 edition (January 31, 1988)

Language: English

ISBN-10: 0849367131

ISBN-13: 978-0849367137

Product Dimensions: 1 x 7.5 x 10.5 inches

Shipping Weight: 1.8 pounds

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