Description Springer

springer.com

Ervin B. Podgoršak

Radiation Physics for Medical Physicists

BIOLOGICAL AND MEDICAL PHYSICS, BIOMEDICAL ENGINEERING

Second Edition

🖄 Springer

2nd ed. 2010, XXXIV, 745 p.

Printed book

Hardcover

- ▶ 129,95 € | £117.00 | \$169.00
- *139,05 € (D) | 142,95 € (A) | CHF 186.50

eBook

Available from your library or

springer.com/shop

МуСору

Printed eBook for just

- ▶ € | \$ 24.99
- springer.com/mycopy

E.B. Podgorsak

Radiation Physics for Medical Physicists

Series: Biological and Medical Physics, Biomedical Engineering

- The missing link between the elementary physics on the one hand and the physics of the subspecialities on the other hand
- Combines radiation physics and medical physics
- 2nd edition enlarged in contents, e.g. accelerators and wave guide theory, updated, and reorganized
- Excellent study text for graduate students and reference work for practitioners

This well-received textbook and reference summarizes the basic knowledge of atomic, nuclear, and radiation physics that professionals working in medical physics and biomedical engineering need for efficient and safe use of ionizing radiation. Concentrating on the underlying principles of radiation physics, it covers the prerequisite knowledge for medical physics courses on the graduate and post-graduate levels in radiotherapy physics, radiation dosimetry, imaging physics, and health physics, thus providing the link between elementary physics on the one hand and the intricacies of the medical physics specialties on the other hand. This expanded and revised second edition offers reorganized and expanded coverage. Several of the original chapters have been split into two with new sections added for completeness and better flow. New chapters on Coulomb scattering; on energy transfer and energy absorption in photon interactions; and on waveguide theory have been added in recognition of their importance. Others training for professions that deal with ionizing radiation in diagnosis and treatment as well as medical residents, students of technology and dosimetry, and biomedical engineering will find many sections interesting and useful for their studies. It also serves as excellent preparatory materials for candidates taking professional certification examinations in medical physics, medical dosimetry, and in medical specialties such as radiotherapy, diagnostic radiology, and nuclear medicine.

From reviews of the first edition:

"Any instructor teaching an introductory graduate-level course on the principles of medical physics should consider this book for adoption as a text... cover[s] the principles themselves, and it covers them very well.

Order online at springer.com ► or for the Americas call (toll free) 1-800-SPRINGER ► or email us at: ordersny@springer.com. ► For outside the Americas call +49 (0) 6221-345-4301 ► or email us at: orders-hd-individuals@springer.com.

The first \in price and the \pm and \$ price are net prices, subject to local VAT. Prices indicated with * include VAT for books; the \in (D) includes 7% for Germany, the \in (A) includes 10% for Austria. Prices indicated with ** include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted.

