



# Radiation Physics for Medical Physicists (Biological and Medical Physics, Biomedical Engineering)

By *Ervin B. Podgorsak*

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**Radiation Physics for Medical Physicists (Biological and Medical Physics, Biomedical Engineering)** By Ervin B. Podgorsak

This book summarizes basic knowledge of atomic, nuclear, and radiation physics that professionals need for efficient and safe use of ionizing radiation.

Concentrating on the underlying principles of radiation physics, it covers prerequisite knowledge for medical physics courses on the graduate and post-graduate levels, providing the link between elementary physics on the one hand and the intricacies of the medical physics specialties on the other.

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### Editorial Review

#### Review

From the reviews of the second edition:

"It covers the prerequisite knowledge needed for courses specific to the subdisciplines of medical physics—radiotherapy physics, radiation dosimetry, imaging physics, and health physics. ... Every medical physicist should master the principles in the book so that their applications in specific fields of medical physics can be understood and appreciated. ... Book is recommended as the text for a course designed for entering graduate students in medical physics, and every medical physicist should understand and be able to utilize the information in the text." (William Hendee, *Medical Physics*, Vol. 37 (9), September, 2010)

#### From the Back Cover

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." (*Medical Physics*, January 2006)

"... a delight and ready-reference also to seasoned practitioners... This textbook, based on notes the author 'developed over the past 25 years of teaching radiation physics to MSc and PhD students in medical physics at McGill University' is a real gem for the bookshelf of anyone already professional working in the radiation sciences..." (John H. Hubbell, *Radiation Physics and Chemistry*)

"...for the theory of radiation physics at a fundamental level, Podgorsak's book provides a wonderful resource presented in a well organized and easy to learn manner, in a way not found in any other text..." (Jake van Dyk, London Regional Cancer Program, *Can. Med Phys Newsletter* (July 2006)

## About the Author

Ervin B. Podgorsak was born in Vienna, Austria and grew up in Ljubljana, Slovenia where he completed his undergraduate studies in technical physics at the University of Ljubljana in 1968. He then studied at the University of Wisconsin in Madison, Wisconsin, USA and obtained M.Sc. and Ph.D. degrees in physics. He completed his post-doctoral studies in medical physics at the University of Toronto in 1974 and moved to McGill University in Montreal, where he currently holds positions of Professor of Medical Physics and Director of the Medical Physics department.

## Users Review

### From reader reviews:

#### **Carlton Solley:**

Spent a free time to be fun activity to try and do! A lot of people spent their down time with their family, or their friends. Usually they performing activity like watching television, going to beach, or picnic in the park. They actually doing same thing every week. Do you feel it? Will you something different to fill your own free time/ holiday? Could possibly be reading a book is usually option to fill your free time/ holiday. The first thing that you'll ask may be what kinds of e-book that you should read. If you want to attempt look for book, may be the publication untitled Radiation Physics for Medical Physicists (Biological and Medical Physics, Biomedical Engineering) can be great book to read. May be it can be best activity to you.

#### **Dorothea Profitt:**

The reason? Because this Radiation Physics for Medical Physicists (Biological and Medical Physics, Biomedical Engineering) is an unordinary book that the inside of the guide waiting for you to snap this but latter it will surprise you with the secret the item inside. Reading this book close to it was fantastic author who have write the book in such wonderful way makes the content on the inside easier to understand, entertaining way but still convey the meaning completely. So , it is good for you for not hesitating having this ever again or you going to regret it. This phenomenal book will give you a lot of benefits than the other book include such as help improving your talent and your critical thinking way. So , still want to hold up having that book? If I ended up you I will go to the book store hurriedly.

#### **Clark Palumbo:**

The book untitled Radiation Physics for Medical Physicists (Biological and Medical Physics, Biomedical Engineering) contain a lot of information on the item. The writer explains the girl idea with easy way. The language is very straightforward all the people, so do not worry, you can easy to read the idea. The book was compiled by famous author. The author brings you in the new time of literary works. You can read this book because you can please read on your smart phone, or program, so you can read the book within anywhere and anytime. In a situation you wish to purchase the e-book, you can open their official web-site and order it. Have a nice learn.

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