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Radiation Oncology Physics: A Handbook for Teachers and Students

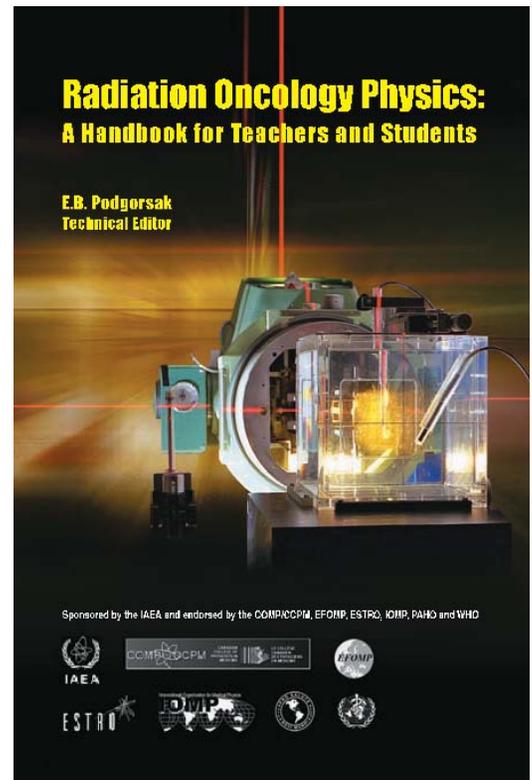
E. B. Podgorsak

This publication is aimed at students and teachers involved in programmes that train professionals for work in radiation oncology. It provides a comprehensive overview of the basic medical physics knowledge required in the form of a syllabus for modern radiation oncology.

It will be particularly useful to graduate students and residents in medical physics programmes, to residents in radiation oncology, as well as to students in dosimetry and radiotherapy technology programmes. It will assist those preparing for their professional certification examinations in radiation oncology, medical physics, dosimetry or radiotherapy technology. It has been endorsed by several international and national organizations and the material presented has already been used to define the level of knowledge expected of medical physicists worldwide.

"All the chapters and sections have been very well organized and structured specifically from the viewpoint of presenting lectures on the fundamental concepts of modern radiation therapy physics... the book successfully fills the gap in the teaching material for the speciality of medical physics, and does so in a single manageable volume with a logical, well-thought-out structure for presenting and learning modern radiation therapy physics."

Stanley H. Benedict,
Virginia Commonwealth University



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[@article{Rosenberg2008RadiationOP, title={Radiation Oncology Physics: A Handbook for Teachers and Students}, author={Ivan Rosenberg}, journal={British Journal of Cancer}, year={2008}, volume={98}, pages={1020 - 1020} }](#) Ivan Rosenberg. Published 2008. This book, published in 2005 by the International Atomic Energy Agency, is a comprehensive compendium of all of the topics that should be covered by a radiation oncology physics course, from basic physics to dosimetry, commissioning and quality assurance of equipment, treatment planning and radiation protection and safety. It has an extensive section on brachytherapy, some basic radiation biology and a chapter on special procedures and techniques. As a handbook, as opposed to a textbook, it The Handbook for Teachers and Students in Radiation Oncology Physics aims at providing the basis for the education of medical physicists initiating their university studies in the field. It is not designed to replace the large number of textbooks available, which will still be necessary to deepen the level of knowledge in specific topics reviewed by the Handbook since it now includes the most recent advances in radiation therapy techniques available today. It is expected that the Handbook will successfully fill a gap in the teaching material for the specialty of Medical Radiation Physics, pr