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## Radiation Oncology Physics: A Handbook for Teachers and Students

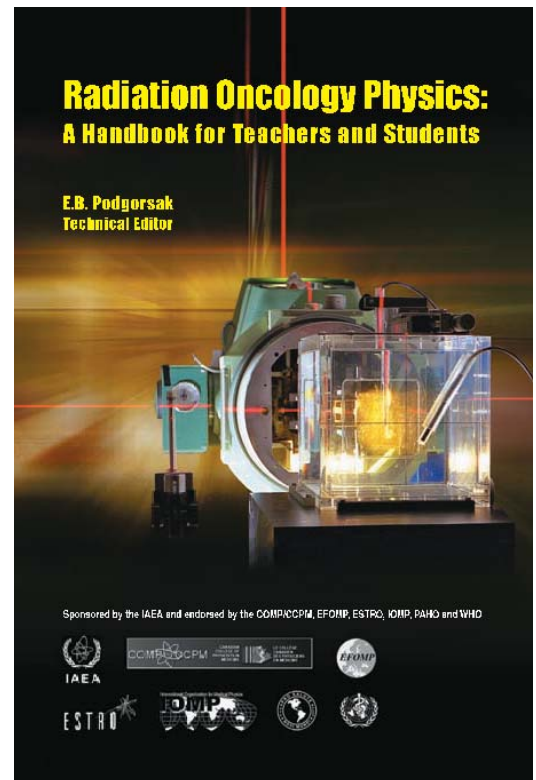
E. B. Podgorsak

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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Podgorsak EB (2005) Radiation oncology physics: a handbook for teachers and students. International Atomic Energy Agency, Vienna, pp 3â€“7Google Scholar. 3. Peres A (1958) Photons, gravitons and the cosmological constant. *Il Nuovo Cimento* (1955-1965) 8(4):533â€“538CrossRefGoogle Scholar. 4. Kano Y (1966) The fluctuation formula for the photon number in stationary electromagnetic fields. *Il Nuovo Cimento B* (1965-1970) 43(1):1â€“5CrossRefGoogle Scholar. 5. PodgorÅ¡ak E (2007) Radiation physics for medical physicists, 1st edn. Springer, Berlin, pp 262â€“265Google Scholar. 15. This article reviews *Radiation Oncology Physics: A Handbook for Teachers and Students* by E. B. Podgorsak . , Vienna, Austria, 2005. ISBN 92-0-107304-6 (paperback), 657 pp. Price: â‚¬65.00.Â To create a realistic model of the experiment, there are inserted two physics lists for nuclear and electromagnetic reactions. To get a high flux of neutrons had taken into account usage of special materials as moderators on the base of (n, 2n) nuclear reactions, as well as, moderators which will decrease the energy of neutrons to achieve the appropriate thermal/epithermal neutron flux.