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

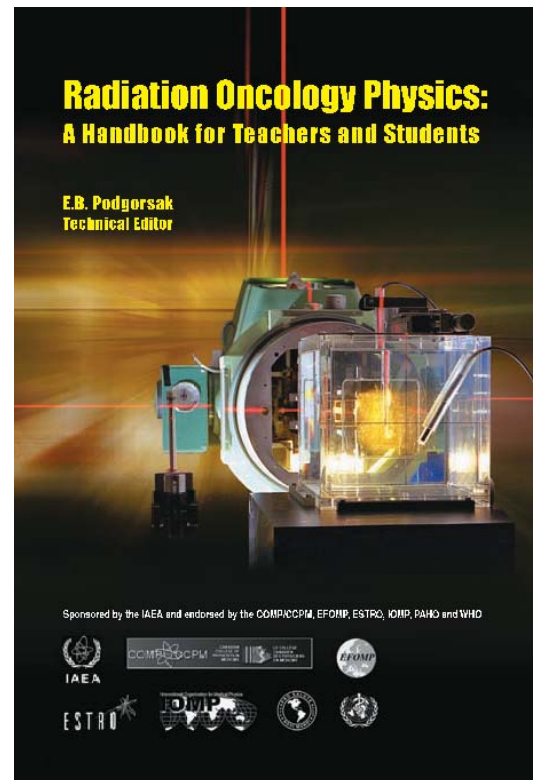
E. B. Podgorsak

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."*

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Available in the National Library of Australia collection. Format: Book; 657 p. : ill. (some col.) ; 24 cm. APA Citation. Podgorski, E. B. & International Atomic Energy Agency. (2005). Radiation oncology physics : a handbook for teachers and students. Vienna : International Atomic Energy Agency. MLA Citation. Podgorski, E. B. and International Atomic Energy Agency. Radiation oncology physics : a handbook for teachers and students International Atomic Energy Agency Vienna 2005. Australian/Harvard Citation. Podgorski, E. B. & International Atomic Energy Agency. 2005, Radiation oncology physics : a handbook for teachers and students International Atomic Energy Agency Vienna. Wikipedia Citation Radiation Oncology Physics: A Handbook for Teachers and Students - 14.2 Slide 2. 14.2 classification of radiations in radiobiology. The ICRU defines the LET as follows: "LET of charged particles in a medium is the quotient  $dE/d$  where  $dE$  is the average energy locally imparted to the medium by a charged particle of specified energy in traversing a distance of  $d$ ." IAEA. Radiation Oncology Physics: A Handbook for Teachers and Students - 14.2 Slide 3. 14.2 classification of radiations in radiobiology. In contrast to the stopping power, which has a typical unit of MeV/cm, the unit reserved f