



IAEA

International Atomic Energy Agency

>> New publication

Radiation Oncology Physics: A Handbook for Teachers and Students

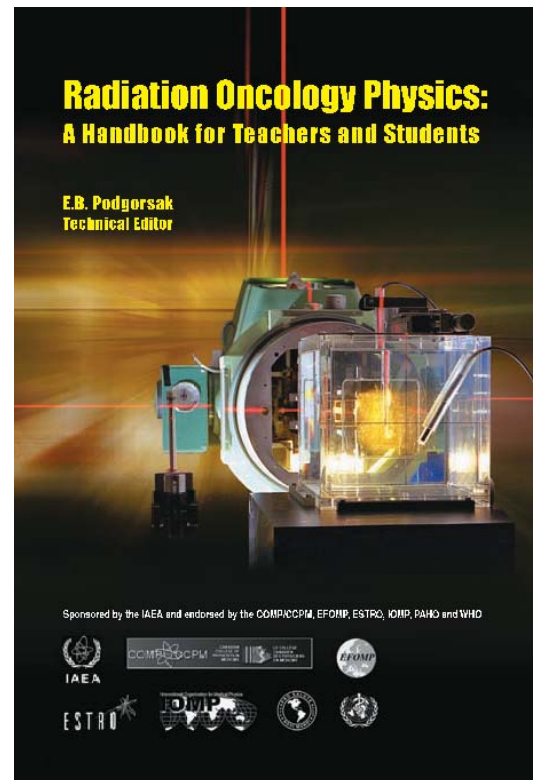
E. B. Podgorsak

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



657 pp., 137 figs
Published: August 2005
ISBN: 92-0-107304-6
STI/PUB/1196
Price: € 65.00

Order form

ISBN/ISSN	Title	Copies	Price (€)
	Total*		

* Shipping charges will be included on your invoice.

Name _____

Full Address _____

Tel _____ Fax _____ Email _____

Payment by MasterCard Visa No: _____ Expiry date: _____

Payment on receipt of invoice.

Bank transfer: Bank account / Bank name / CUR / Address / Code / SWIFT

4801512 / Canadian Imperial Bk.of Commerce / CAD / 2 Bloor Street West,
Suite 500, Toronto, Ontario M4W2J7, Canada / CH015035 / CIBCCATT

00237571500 / Bank Austria Creditanstalt / EUR / V.I.C. Branch, A-1400 Vienna,
Austria / 12000 / BKAUATWW / IBAN = AT41 1100 0002 3757 1500

9492421244 / J.P. Morgan Chase Bank / USD / 1166 Ave. of the Americas,
17th Floor, New York, NY 10036-2708, USA / 021000021 / CHASUS33

Please send me a catalogue of IAEA publications.

I do not wish to receive information on related IAEA publications.

Mail or fax this order to:

IAEA, Wagramer Strasse 5, P.O.Box 100, A-1400 Vienna, Austria

Fax: +43 (1) 2600/29302 Tel: +43 (1) 2600/22529 or +43 (1) 2600/22530

E-mail: sales.publications@iaea.org www.iaea.org/books

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.Â PodgorÅ¡ak E (2007) Radiation physics for medical physicists, 1st edn. Springer, Berlin, pp 262â€“265Google Scholar. 15. 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: â€œLET 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 .â€ 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