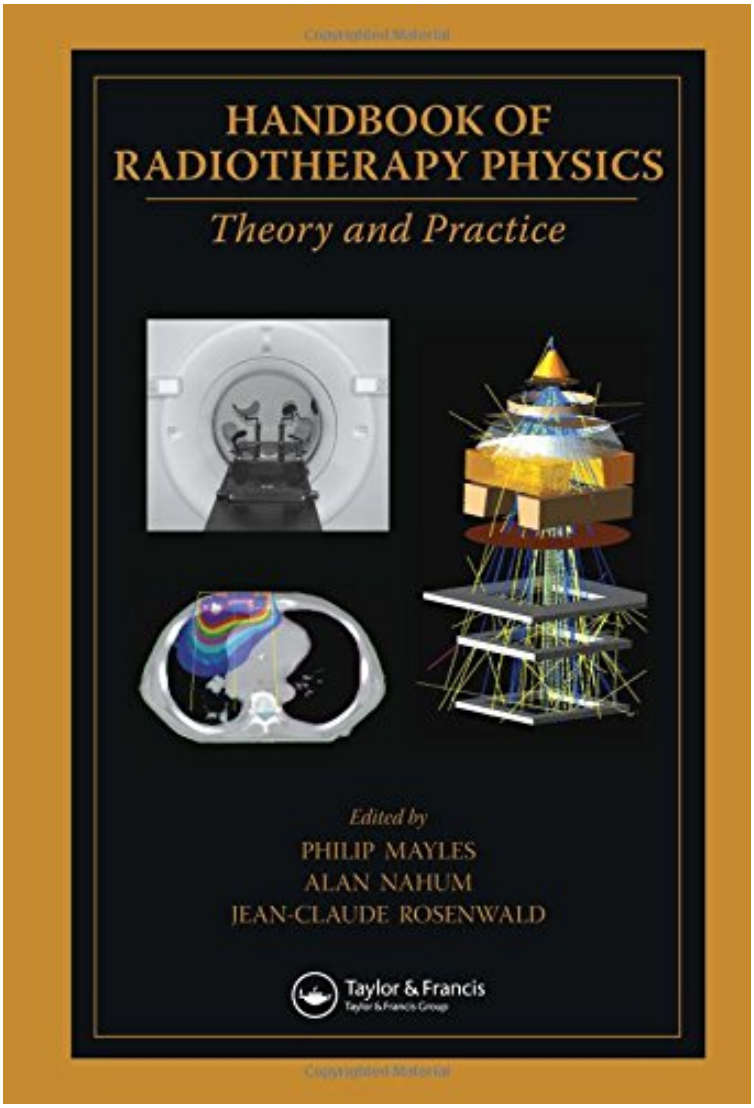
Handbook of Radiotherapy Physics: Theory and Practice

From Brand: CRC Press
**Download PDF | ePub | DOC | audiobook | ebooks*



#2587478 in Books CRC Press 2007-06-12Original language:EnglishPDF # 1 10.14 x 2.50 x 7.26l, 6.75 #File Name: 07503086051450 pages | File size: 46.Mb

From Brand: CRC Press : Handbook of Radiotherapy Physics: Theory and Practice before purchasing it in order to gage whether or not it would be worth my time, and all praised Handbook of Radiotherapy Physics: Theory and Practice:

2 of 3 people found the following review helpful. Radiation PhysicsBy D. KavanaghGreat overview of all radiation physics. A very good review for therapists, dosimetrists and the like. Recommend it highly especially the 3 chapters on radiobio.

From background physics and biological models to the latest imaging and treatment modalities, the Handbook of Radiotherapy Physics: Theory and Practice covers all theoretical and practical aspects of radiotherapy physics.In this comprehensive reference, each part focuses on a major area of radiotherapy, beginning with an introduction by the editors and then subdividing into self-contained chapters. The first three parts present the fundamentals of the underlying physics, radiobiology, and technology involved. The ensuing sections discuss the support requirements of external beam radiotherapy, such as dose measurements, properties of clinical beams, patient dose computation, treatment planning, and quality assurance, followed by a part that explores exciting new advances that include developments in photon and particle therapy. Subsequent sections examine brachytherapy using sealed and unsealed sources and provide the framework of radiation protection, including an appendix that describes the detailed application of UK legislation. The final part contains handy tables of both physical constants and attenuation data.To achieve safe and effective radiotherapy, there needs to be a close understanding among various disciplines. With contributions from renowned specialists, the Handbook of Radiotherapy Physics: Theory and Practice provides essential theoretical and practical knowledge for medical physicists, researchers, radiation oncologists, and radiation technologists.

" Due to the broad range of topics covered and the clear, concise explanations, this text would be ideal for anyone wishing to study or refresh their knowledge of any central area of radiotherapy physics. IPEM Part 1 trainees in the UK (and any other trainee following a similar training programme elsewhere) in particular should take note . Part 2 trainees will also benefit, especially in exploring the excellent source of referenced material. In comparison to other reference texts, the Handbook of Radiotherapy Physics is clear and also filled with many knowledgeable and useful observations and notes. It is an excellent reference text and sits nicely on the shelf alongside your old copy of Williams and Thwaites."SCOPE, December 2009 " comprehensive reference With contributions from renowned specialists, this book provides essential theoretical and practical knowledge to deliver safe and effective radiotherapy." Anticancer Research, 2009, Vol. 29 "The editors have managed with great success to assemble the information submitted by the contributing authors and put it in a format that is concise, easy to read, and rich in content it can serve as an excellent reference manual and resource." Niko Papanikolaou, University of Texas Health Sciences Center,Medical Physics, September 2008, Vol. 35, No. 9 About the AuthorClatterbridge, UK Clatterbridge Centre for Oncology, U.K. Institute Curie, Paris, France