



Radiotherapy Physics: In Practice

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Radiotherapy has been one of the principal modalities for the treatment of malignant disease for more than 50 years. From the outset, its advancement has depended on the work of physicists and engineers, in particular for the development of high-energy accelerators for X-ray and electron beams, and in the production of radioactive sources. In addition, the clinical application of ionizing radiations for therapy is based on the foundation of dosimetric concepts and instrumentation. Medical physics plays a pivotal role in many areas, including treatment equipment, dosimetry, treatment planning, and radiation protection.

Radiotherapy physics, second edition is a comprehensive, practical introduction to radiotherapy physics. It provides detailed descriptions of current techniques, written by experienced practitioners who review current methods and give specific guidance in their own areas of expertise. This new edition reflects the significant changes that have occurred in radiotherapy equipment and techniques - the routine use of MLCs, the delivery of IMRT, advances in imaging technology for planning (eg MRI, CT-simulator) and for treatment verification (EPIDs). There have also been significant changes in dosimetry, which have resulted in new dosimetry protocols. Trainee and qualified medical physicists, radiographers, radiation oncologists, and other personnel involved in radiotherapy will find this book to be an excellent guide to this important specialty.

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