

## Practical Essentials Of Intensity Modulated Radiation Therapy

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The primary objective of this book is to teach residents, fellows, and clinicians in radiation oncology how to incorporate intensity modulated radiation therapy (IMRT) into their practice. IMRT has proven to be an extremely effective treatment modality for head and neck cancers. It is now being used effectively in other sites, including, prostate, breast, lung, gynecological, the cervix, the central nervous system, and lymph nodes. The book will provide in a consistent format an overview of the natural course, lymph node spread, diagnostic criteria, and therapeutic options for each cancer subsite.

The third edition of Intensity Modulated Radiation Therapy was written to enhance the reader's understanding of the cutting-edge technology of Intensity Modulated Radiation Therapy. It is designed to both update old readers and inform new readers about the complexities and details of clinical management. This completely updated edition provides a step-by-step, practical approach to the use of IMRT in the evaluation and treatment of cancer patients. Because of IMRT's ability to employ individually controlled beamlets, it is an extremely promising technique, especially when paired with CT, PET, and/or MRI. With these improved procedures, doctors and clinicians will be able to take high resolution images of tumors while minimizing dosages to surrounding tissue. In order to focus on the most up to date IMRT techniques, the introductory chapters have been condensed to provide a brief overview of IMRT physics, mechanics and quality assurance, and also CT and MR imaging. To help assist in clinical decision-making it provides the reader with more than 700 full-color illustrations, IMRT tables and clear, straightforward descriptions that address a range of tumor types and sites including head and neck, urinary, and gynecologic cancers.

The first clinical book on the hottest topic in radiation oncology, this timely teaching text offers step-by-step guidance in use of IMRT for cancers at each subsite of the head and neck. The book's high-end content gives readers the clinical decision-making expertise and technical proficiency to incorporate this state-of-the-art radiation treatment technique into practice. Unique to this text is the site-specific instruction on target determination and delineation, to ensure adequate treatment of the tumor target while sparing adjacent normal tissue. More than 250 detailed full-color and black-and-white illustrations clarify each step in clinical implementations of head and neck cancer treatment, especially IMRT. The book provides a concise, pertinent overview of the natural course, lymph node spread, diagnostic criteria, and therapeutic options for each head and neck cancer subsite. Numerous tables provide extensive summaries of the IMRT literature. Figures with succinct explanatory text demonstrate the patterns of direct tumor extension and nodal metastasis with which target volumes are determined and delineated. Clinical outcomes for patients treated with IMRT and with conventional techniques are also included.

This handbook will enable radiation oncologists to appropriately and confidently select and delineate tumor volumes/fields for conformal radiation therapy, including intensity-modulated radiation therapy (IMRT), in patients with commonly encountered cancers. The orientation of this handbook is entirely practical, in that the focus is on the illustration of clinical target volume (CTV) delineation for each major malignancy. Each chapter provides guidelines and concise knowledge on treatment planning and CTV selection, explains how the anatomy of lymphatic drainage shapes target volume selection,

and presents detailed illustrations of delineations, slice by slice, on planning CT images. While the emphasis is on target volume delineation for three-dimensional conformal therapy and IMRT, information is also provided on conventional radiation therapy field setup and planning for certain malignancies for which IMRT is not currently suitable.

This handbook is designed to enable radiation oncologists to treat patients appropriately and confidently by means of particle therapy. The orientation and purpose are entirely practical, in that the focus is on the physics essentials of delivery and treatment planning, illustration of the clinical target volume (CTV) and associated treatment planning for each major malignancy when using particle therapy, proton therapy in particular. Disease-specific chapters provide guidelines and concise knowledge on CTV selection and delineation and identify aspects that require the exercise of caution during treatment planning. The treatment planning techniques unique to proton therapy for each disease site are clearly described, covering beam orientation, matching/patching field techniques, robustness planning, robustness plan evaluation, etc. The published data on the use of particle therapy for a given disease site are also concisely reported. In addition to fully meeting the needs of radiation oncologists, this "know why" and "know how" guide to particle therapy will be valuable for medical physicists, dosimetrists, and radiation therapists.

The articles in The Encyclopedia of Medical Devices and Instrumentation focus on what is currently useful or is likely to be useful in future medicine. They answer the question, What are the branches of medicine and how does technology assist each of them? Articles focus on the practice of medicine that is assisted by devices, rather than including, for example, the use of drugs to treat disease. The title is the only resource on the market dealing with the subject in encyclopedic detail. \* Accessible to practitioners with a broad range of backgrounds from students to researchers and physicians \* Articles cover the latest developments such as nanotechnology, fiber optics, and signal processing

This publication is aimed at students and teachers involved in teaching programmes in field of medical radiation physics, and it covers the basic medical physics knowledge required in the form of a syllabus for modern radiation oncology. The information will be useful to those preparing for professional certification exams in radiation oncology, medical physics, dosimetry or radiotherapy technology.

This textbook takes a unified view of the fundamentals of wireless communication and explains cutting-edge concepts in a simple and intuitive way. An abundant supply of exercises make it ideal for graduate courses in electrical and computer engineering and it will also be of great interest to practising engineers.

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