



Contemporary IMRT: Developing Physics and Clinical Implementation (Series in Medical Physics and Biomedical Engineering)

S. Webb

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The most important radiotherapy modality used today, intensity modulated radiation therapy (IMRT), is the most technologically advanced radiotherapy cancer treatment available, rapidly replacing conformal and three-dimensional techniques. Because of these changes, oncologists and radiotherapists need up-to-date information gathered by physicists and engineers. Focusing on new developments and the preliminary clinical implementation, Contemporary IMRT: Developing Physics and Clinical Implementation discusses the relationship between these advances and applications.

Capturing contemporary technological advances, the book reviews modern applications of IMRT and shows how IMRT is used now and how it will be used in the future. The book begins with a historical background of IMRT as well as a discussion of the current state of IMRT. It also covers technical solutions that have been commercialized, such as the sliding window technique, step-and-shoot, tomotherapy, and the Cyberknife. The final chapter explores imaging developments and new planning methods, including gradient-descent and split modulation.

Covering recent advancements in IMRT and showing how these techniques and devices have been implemented, Contemporary IMRT: Developing Physics and Clinical Implementation provides state-of-the-art findings for oncologists, radiotherapists, radiographers, physicists, and engineers.

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