



Linear Accelerators for Radiation Therapy, Second Edition (Series in Medical Physics and Biomedical Engineering)

By David Greene, P.C Williams

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Linear Accelerators for Radiation Therapy, Second Edition focuses on the fundamentals of accelerator systems, explaining the underlying physics and the different features of these systems. This edition includes expanded sections on the treatment head, on x-ray production via multileaf and dynamic collimation for the production of wedged and other intensity modulated beams, on electron scattering systems, and on dosimetry. With high-quality illustrations and practical examples throughout, it contains a detailed description of electron beam optics and linear accelerator components. The final chapter explains how to use other equipment, such as scanners and simulators, in conjunction with linear accelerators for optimum treatment of cancers.

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Editorial Review

Review

..." a very welcome second edition ... thoroughly up to date with sections on MLCs, EPIDs, computer control of LINACs, dosimetry protocols, imaging and costs ... intensely practical and useful volume ...," Professor S Webb, Institute of Cancer Research and Royal Marsden NHS Trust ... " excellent ... clearly written for medical physicists in the field." Professor S Lillicrap, Head of Medical Physics, Wessex Regional Medical Physics Service ... " notable improvements include ... technology of state-of-the-art radiotherapy techniques, more in-depth treatment of specialist topics such as waveguide theory and electron beam optics ... marked increase in the number and quality of diagrams" J B Tuohy, Head of Radiotherapy Technology, Cookridge Hospital "a useful book for the indicated readership" A N L Kay, Director, Varian Oncology Systems. ..." a reasonably sized and priced textbook that should be on every therapy department bookshelf and in every medical and radiography school. Radiographers, radiotherapists, medical technical officers, manufacturers and clinical scientists would all benefit from this book." Mr P H Smithson, Principal Physicist, Medical Equipment Management Organisation, Bristol Oncology Centre, RAD Magazine, April 1998 related S C Klevenhagen: Physics of Electron Beam Therapy, 1985 S Webb: The Physics of Three Dimensional Radiation Therapy, 1993 S Webb: The Physics of Conformal Radiotherapy: Advances in Technology, 1997 very welcome second edition ... thoroughly up to date with sections on MLCs, EPIDs, computer control of LINACs, dosimetry protocols, imaging and costs ... intensely practical and useful volume ...," Professor S Webb, Institute of Cancer Research and Royal Marsden NHS Trust ... " excellent ... clearly written for medical physicists in the field." Professor S Lillicrap, Head of Medical Physics, Wessex Regional Medical Physics Service ... " notable improvements include ... technology of state-of-the-art radiotherapy techniques, more in-depth treatment of specialist topics such as waveguide theory and electron beam optics ... marked increase in the number and quality of diagrams" J B Tuohy, Head of Radiotherapy Technology, Cookridge Hospital "a useful book for the indicated readership" A N L Kay, Director, Varian Oncology Systems. ..." a reasonably sized and priced textbook that should be on every therapy department bookshelf and in every medical and radiography school. Radiographers, radiotherapists, medical technical officers, manufacturers and clinical scientists would all benefit from this book." Mr P H Smithson, Principal Physicist, Medical Equipment Management Organisation, Bristol Oncology Centre, RAD Magazine, April 1998 related S C Klevenhagen: Physics of Electron Beam Therapy, 1985 S Webb: The Physics of Three Dimensional Radiation Therapy, 1993 S Webb: The Physics of Conformal Radiotherapy: Advances in Technology, 1997

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