



The Essential Physics of Medical Imaging (Hardback)

By Jerrold T. Bushberg, John M. Boone, Edwin M. Leidholdt

Lippincott Williams and Wilkins, United States, 2012. Hardback. Book Condition: New. 3rd revised international ed. 262 x 186 mm. Language: English . Brand New Book. This renowned work is derived from the authors acclaimed national review course (Physics of Medical Imaging) at the University of California-Davis for radiology residents. The text is a guide to the fundamental principles of medical imaging physics, radiation protection and radiation biology, with complex topics presented in the clear and concise manner and style for which these authors are known. Coverage includes the production, characteristics and interactions of ionizing radiation used in medical imaging and the imaging modalities in which they are used, including radiography, mammography, fluoroscopy, computed tomography and nuclear medicine. Special attention is paid to optimizing patient dose in each of these modalities. Sections of the book address topics common to all forms of diagnostic imaging, including image quality and medical informatics as well as the non-ionizing medical imaging modalities of MRI and ultrasound. The basic science important to nuclear imaging, including the nature and production of radioactivity, internal dosimetry and radiation detection and measurement, are presented clearly and concisely. Current concepts in the fields of radiation biology and radiation protection...



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