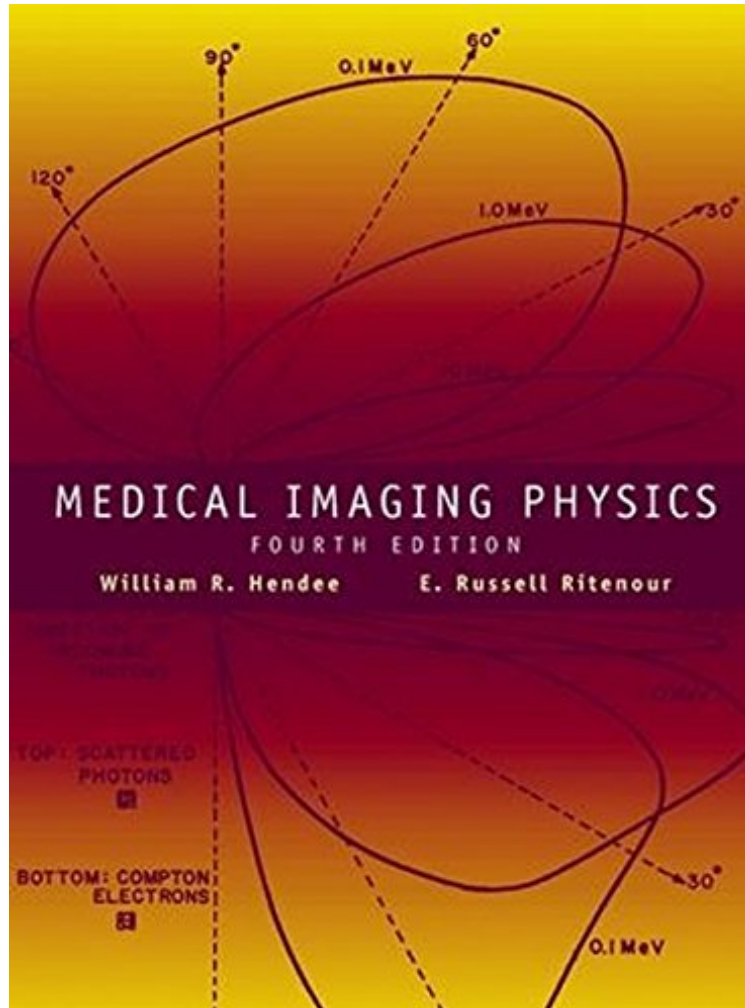


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Medical Imaging Physics

William R. Hendee, E. Russell Ritenour
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and mistakes on the tables. The examples and problems sections are really irritating, sometimes they show a couple of equations and write 5 problems over the same equation over and over again, and I have found instances where the "answers to selected problems" section show incorrect information. There is very little physics that you can learn from those problems. It seems that it is hard to find good books on Medical Imaging, but I highly recommend "The essential physics of medical imaging" (Bushberg. et al.) This is a very good review of the imaging techniques but it is not very quantitative. A more quantitative book I would recommend is "Medical Imaging: signals and systems" by Jerry L. Price. If you have an option, don't waste your money on this book.

This comprehensive publication covers all aspects of image formation in modern medical imaging modalities, from radiography, fluoroscopy, and computed tomography, to magnetic resonance imaging and ultrasound. It addresses the techniques and instrumentation used in the rapidly changing field of medical imaging. Now in its fourth edition, this text provides the reader with the tools necessary to be comfortable with the physical principles, equipment, and procedures used in diagnostic imaging, as well as appreciate the capabilities and limitations of the technologies.

...fulfills the authors goal of providing an up-to-date survey of the physics of medical imaging in a format that will appeal to students and educators alike. The coverage of topics is sufficiently comprehensive, making it a suitable introductory text for a number of imaging-oriented courses. (Radiology, January 2004) "The authors are...experts...but also seasoned teachers this is evidenced by the clarity of thought and completeness with which they treat each topic in this comprehensive, easily readable textbook." (IEEE Engineering in Medicine and Biology, May/ June 2003) "...provides clear descriptions of difficult concepts while keeping mathematics to a minimum. The examples and problems for students are thought provoking and help solidify an understanding of the material." (Doody's) "...an excellent introduction to the physics of medical imaging...Medical Imaging Physics is sure to be a favorite of residents, perhaps supplanting Christensens Introduction to the Physics of Diagnostic Radiology as the classic radiology residency physics text." (American Journal of Roentgenology, Vol. 180, No. 4, April 2003) "I would highly recommend this book as the primary reference for radiological physicists attempting to expand their understanding of medical imaging and those individuals preparing for certification in diagnostic radiology" "the book is a treasure of material [and] an indispensable source" --Edward L. Nickoloff, D.Sc., Department of Radiology, Columbia University and New York-Presbyterian Hospital

From the Author All medical imaging, including x-ray imaging, computed tomography, ultrasonography, nuclear medicine, positron emission tomography, and magnetic resonance imaging, is grounded in physics. Medical Imaging Physics presents the physics underlying medical imaging in a comprehensive and comprehensible manner. This book is helpful to physicians, physicists and engineers working in medical imaging, but can be understood by any non-specialist with a college background that includes science and engineering courses.