



# Medical Imaging Physics

*By William R. Hendee, E. Russell Ritenour*

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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.

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## Editorial Review

### Review

"...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 Christensen's *Introduction to the Physics of Diagnostic Radiology* as the classic radiology residency physics text." (*American Journal of Roentgenology*, Vol. 180, No. 4, April 2003)

### Review

"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.

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#### Lillian Owensby:

Why don't make it to become your habit? Right now, try to ready your time to do the important action, like looking for your favorite guide and reading a reserve. Beside you can solve your trouble; you can add your knowledge by the book entitled *Medical Imaging Physics*. Try to the actual book *Medical Imaging Physics* as your friend. It means that it can to become your friend when you feel alone and beside those of course make you smarter than ever. Yeah, it is very fortunated for yourself. The book makes you considerably more confidence because you can know every thing by the book. So , we should make new experience in addition to knowledge with this book.

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