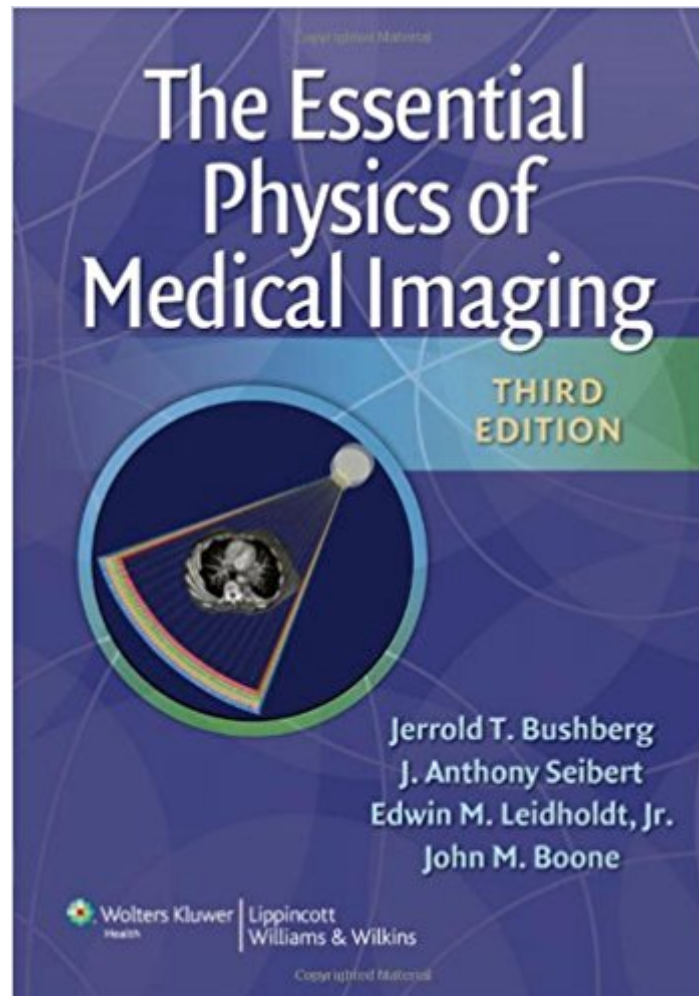




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# The Essential Physics Of Medical Imaging, Third Edition



## Synopsis

Publisher's Note: Products purchased from 3rd Party sellers are not guaranteed by the Publisher for quality, authenticity, or access to any online entitlements included with the product. 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 relevant to medical imaging, and a number of helpful appendices complete this comprehensive textbook. The text is enhanced by numerous full color charts, tables, images and superb illustrations that reinforce central concepts. The book is ideal for medical imaging professionals, and teachers and students in medical physics and biomedical engineering. Radiology residents will find this text especially useful in bolstering their understanding of imaging physics and related topics prior to board exams.--NEW Four-color throughout--NEW Companion website with fully searchable text and images--Basic line drawings help to explain concepts--Comprehensive coverage of diagnostic imaging modalities--Superb writing style of the author team helps make a difficult subject approachable and engaging

## Book Information

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## Customer Reviews

This book is a must-read for anyone studying for the new ABR Core exam. Anyone who has met them will attest the authors are extremely dedicated educators who personally go to great lengths to help residents master the fundamentals of imaging physics. They listened to our feedback and this new edition constitutes a substantial upgrade over the previous one, as other reviewers have commented. The addition of many graphs & images makes the complex subjects much more approachable & easily understood. More importantly, the authors have taken great pains to make the discussions clinically relevant to the general radiologist. The authors are leaders in their respective fields, and this book is the de facto standard for medical imaging physics in the academic radiology community. Ideally, the book should be read throughout first & second years of residency for comprehension with the opportunity for reinforcement with knowledgeable medical physicists and/or staff radiologists. However, even if (or especially if) you're lacking the latter, the book provides a comprehensive treatment of every relevant physics subject needed to succeed on the Core exam. This book serves well as a primary reference throughout the general radiology residency and should be the starting point for Core exam physics preparation. I found re-reading the book indispensable for board preparation and it served best when used as a reference to explore questions from other sources (i.e., Huda, RAPHEX exams, UCD physics course by the authors, RSNA modules etc.). A few of the more complex and evolving imaging techniques in MRI (e.g., phase-contrast, SWI, functional MRI) may require supplemental reading, but even these areas are treated adequately for a basic understanding. Finally, with the revisions made in this updated edition, skimming the graphs/figures also made for a useful last minute physics review before the test.

more of a reference text no way i was able to read all of this to prep for my radiology post grad exams

Fast delivery and the book is in very good shape. The book context is really easy to read and a very good reference book for medical physics related personnel. The colourized photos of the third edition make it even more attractive and interesting to read.

Excellent condition.

Nice book with tons of colorful pictures on this new edition, the pictures really help understand the physics. Good job explaining things for most of it, at times though it makes it a bit more confusing than it needs to be but overall very helpful and new edition is a pleasure to look at and read.

As a future radiology resident, I bought this edition (older now) to skim through and see how I liked it. Three chapters in, I think this book has a great balance between the physics of medical imaging, while stating its message to a future clinician. It has enough depth to explain chemical and physical properties of imaging for any of those interested. It might be too in depth for radiology training (e.g. I highly doubt a majority of my future work will involve the content of this book), however for a future clinician wanting an in-depth description of how medical imaging is done, this book is perfect.

Bushberg is definitely not for the faint of heart. It is a challenging book but filled with a bunch of useful information. The product was delivered on time in good condition and met all of my expectations. It was also cheaper than my university book store.

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