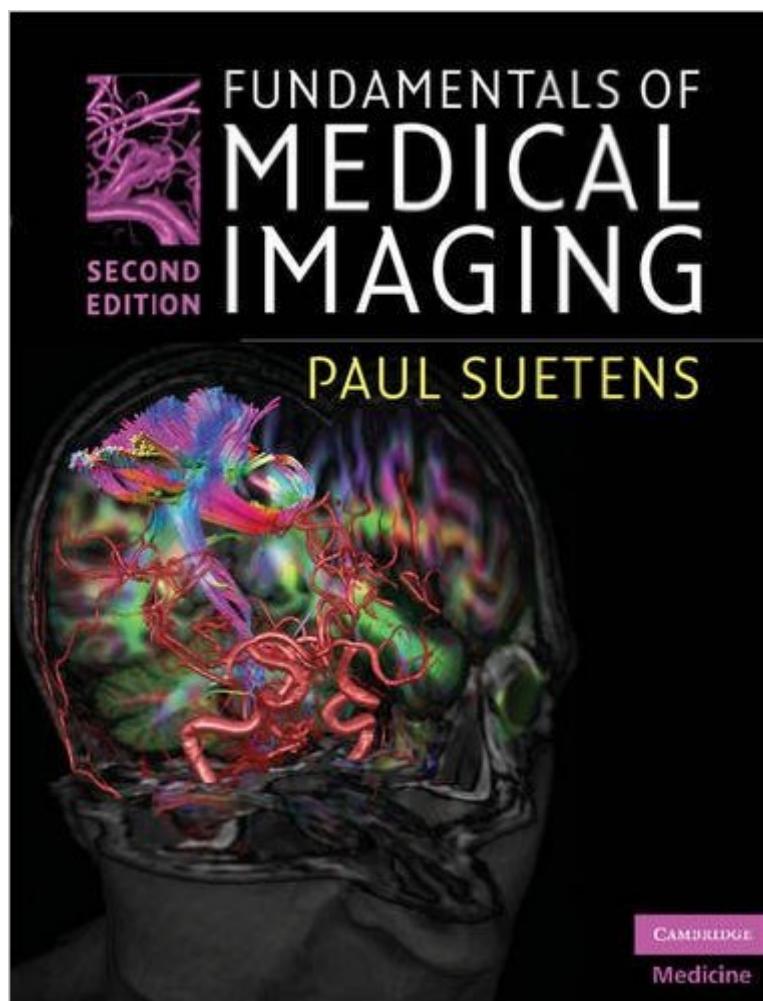


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# Fundamentals Of Medical Imaging



## Synopsis

Fundamentals of Medical Imaging, second edition, is an invaluable technical introduction to each imaging modality, explaining the mathematical and physical principles and giving a clear understanding of how images are obtained and interpreted. Individual chapters cover each imaging modality - radiography, CT, MRI, nuclear medicine and ultrasound - reviewing the physics of the signal and its interaction with tissue, the image formation or reconstruction process, a discussion of image quality and equipment, clinical applications and biological effects and safety issues. Subsequent chapters review image analysis and visualization for diagnosis, treatment and surgery. New to this edition:  $\diamond$  Appendix of questions and answers  $\diamond$  New chapter on 3D image visualization  $\diamond$  Advanced mathematical formulae in separate text boxes  $\diamond$  Ancillary website containing 3D animations: [www.cambridge.org/suetens](http://www.cambridge.org/suetens)  $\diamond$  Full colour illustrations throughout Engineers, clinicians, mathematicians and physicists will find this an invaluable aid in understanding the physical principles of imaging and their clinical applications.

## Book Information

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## Customer Reviews

I bought this because it was 'required' for my graduate level medical imaging course. It is however, not up to par for what a biomed. eng. or medical physicist would want/need. It is more appropriate for a medical student interested in imaging or a radiology resident. For the course, we quickly ended up referring to Jerry Prince's Medical Imaging Signals and Systems, which goes much more in depth into the math, yet explains it really well.

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