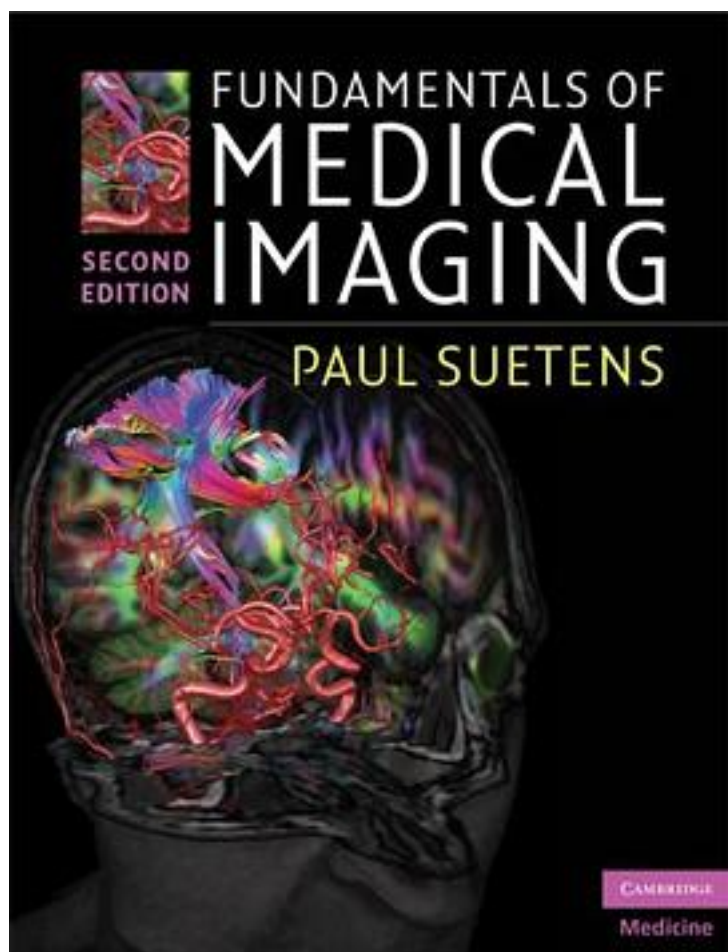


# Fundamentals of Medical Imaging



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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: \* Appendix of questions and answers \* New chapter on 3D image visualization \* Advanced mathematical formulae in separate text boxes \* Ancillary website containing 3D animations: [www.cambridge.org/suetens](http://www.cambridge.org/suetens) \* 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.

作者介绍:

目录:

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