

## Fundamentals Of Medical Imaging By Paul Suetens

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An introductory chapter on digital image processing is followed by chapters on the imaging modalities: radiography, CT, MRI, nuclear medicine and ultrasound. Each chapter covers the basic physics and interaction with tissue, the image reconstruction process, image quality aspects, modern equipment, clinical applications, and biological effects and safety issues.

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Medical imaging and image computing are rapidly evolving fields, and this edition has been updated with the latest developments in the field, as well as new images and animations. An introductory chapter on digital image processing is followed by chapters on the imaging modalities: radiography, CT, MRI, nuclear medicine and ultrasound.

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This book explains the applied mathematical and physical principles of medical imaging and image computing. It gives a complete survey of how medical images are obtained and how they can be used for diagnosis, therapy, and surgery. It is accompanied by about 400 color illustrations and 80 video clips.

### Preface - Fundamentals of Medical Imaging

Fundamentals of Medical Imaging. 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.

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### Fundamentals of Medical Imaging by Paul Suetens

Beginning with an introduction to digital image processing, it goes on to cover the most important imaging modalities in use today: radiography, computed tomography, magnetic resonance imaging,...

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### The Fundamentals of Imaging

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