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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. It has been written principally as a course text on medical imaging intended for graduate and final year undergraduate students with a background in physics, mathematics, or engineering.

Preface - Fundamentals of Medical Imaging

Book description. 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 ...

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