



Webb's Physics of Medical Imaging, Second Edition (Series in Medical Physics and Biomedical Engineering)

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Since the publication of the best-selling, highly acclaimed first edition, the technology and clinical applications of medical imaging have changed significantly. Gathering these developments into one volume, **Webb's Physics of Medical Imaging, Second Edition** presents a thorough update of the basic physics, modern technology and many examples of clinical application across all the modalities of medical imaging.

New to the Second Edition

- Extensive updates to all original chapters
- Coverage of state-of-the-art detector technology and computer processing used in medical imaging
- 11 new contributors in addition to the original team of authors
- Two new chapters on medical image processing and multimodality imaging
- More than 50 percent new examples and over 80 percent new figures
- Glossary of abbreviations, color insert and contents lists at the beginning of each chapter

Keeping the material accessible to graduate students, this well-illustrated book reviews the basic physics underpinning imaging in medicine. It covers the major techniques of x-radiology, computerised tomography, nuclear medicine, ultrasound and magnetic resonance imaging, in addition to infrared, electrical impedance and optical imaging. The text also describes the mathematics of medical imaging, image processing, image perception, computational requirements and multimodality imaging.

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