



# Introduction to Biomedical Imaging

*Andrew G. Webb*

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**Introduction to Biomedical Imaging** Andrew G. Webb

**An integrated, comprehensive survey of biomedical imaging modalities**

An important component of the recent expansion in bioengineering is the area of biomedical imaging. This book provides in-depth coverage of the field of biomedical imaging, with particular attention to an engineering viewpoint.

Suitable as both a professional reference and as a text for a one-semester course for biomedical engineers or medical technology students, *Introduction to Biomedical Imaging* covers the fundamentals and applications of four primary medical imaging techniques: magnetic resonance imaging, ultrasound, nuclear medicine, and X-ray/computed tomography.

Taking an accessible approach that includes any necessary mathematics and transform methods, this book provides rigorous discussions of:

- The physical principles, instrumental design, data acquisition strategies, image reconstruction techniques, and clinical applications of each modality
- Recent developments such as multi-slice spiral computed tomography, harmonic and sub-harmonic ultrasonic imaging, multi-slice PET scanning, and functional magnetic resonance imaging
- General image characteristics such as spatial resolution and signal-to-noise, common to all of the imaging modalities

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