

MRI: Basic Principles and Applications

Mark A. Brown, Richard C. Semelka

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MRI: Basic Principles and Applications Mark A. Brown, Richard C. Semelka **Fourth Edition Brings This Popular Guide Thoroughly Up To Date With The Latest MRI Findings, Techniques, And Applications**

For its *Fourth Edition*, the acclaimed *MRI: Basic Principles and Applications* has been rigorously revised, enabling readers to quickly master the principles and take advantage of all the latest MRI applications. Among the new materials are fresh and updated discussions on 3D imaging, real-time imaging, cardiac imaging, and parallel acquisition techniques. In addition, readers will find dozens of brand-new images to illustrate key concepts. Moreover, clinical protocols have been thoroughly updated and revised to reflect current methodologies.

Throughout the book, readers will find easy-to-follow coverage of all the latest findings, technologies, and techniques, including:

- Nephrotoxic effects of gadolinium-based contrast media
- New scan techniques, including radial scanning
- Parallel acquisition and cardiovascular imaging techniques
- New applications, including spin tagging and diffusion tensor imaging
- 3 Tesla and 7 Tesla scanning
- Hardware innovations, including large-scale array coils
- New motion compensation techniques

With its clear explanations and ample illustrations, this *Fourth Edition* maintains all the hallmarks of the previous edition that have made this book a fixture in MRI labs around the world. Students and practitioners—from physicians to radiologists to technicians—will gain a full, accurate understanding of the underlying physics and the clinical applications of MRI, all with a minimum of mathematical formulas and technical details.

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