



MRI: Basic Principles and Applications

By Brian M. Dale, Mark A. Brown, Richard C. Semelka

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This fifth edition of the most accessible introduction to MRI principles and applications from renowned teachers in the field provides an understandable yet comprehensive update.

- Accessible introductory guide from renowned teachers in the field
- Provides a concise yet thorough introduction for MRI focusing on fundamental physics, pulse sequences, and clinical applications without presenting advanced math
- Takes a practical approach, including up-to-date protocols, and supports technical concepts with thorough explanations and illustrations
- Highlights sections that are directly relevant to radiology board exams
- Presents new information on the latest scan techniques and applications including 3 Tesla whole body scanners, safety issues, and the nephrotoxic effects of gadolinium-based contrast media

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Editorial Review

From the Back Cover

Magnetic Resonance Imaging (MRI) is an integral component of medical imaging. Whilst new measurement techniques and applications continue to be developed nearly thirty years after the initial clinical scanners were installed the basic principles behind the measurement techniques remain as true today as then. This fifth edition of *MRI Basic Principles and Applications* presents the fundamental concepts of MRI in a clear and concise manner, minimizing the mathematical formalism yet providing a foundation to understand the results that are obtained with today's clinical scanners. This book:

- Accessible introductory guide from renowned teachers in the field
- Provides a concise yet thorough introduction for MRI focusing on fundamental physics, pulse sequences, and clinical applications without presenting advanced math
- Takes a practical approach, including up-to-date protocols, and supports technical concepts with thorough explanations and illustrations
- Highlights sections that are directly relevant to radiology board exams
- Presents new information on the latest scan techniques and applications including 3 Tesla whole body scanners, safety issues, and the nephrotoxic effects of gadolinium-based contrast media

This is an ideal resource to help radiologists prepare for their exams and understand the underlying MR physics principles as efficiently as possible.

About the Author

Brian M. Dale, Ph.D. MBA is Zone Research Manager, MR R&D Collaborations, Siemens Medical Solutions, Inc. Brian is a younger colleague at Siemens of the previous co-author, Dr Mark Brown. Brian has a PhD in biomedical engineering from Case Western Reserve University in Cleveland, OH. His interests are in sequence programming and optimal design.

Mark A. Brown, Ph.D. is Senior Technical Instructor at Siemens Medical Solutions Training and Development Center. He received his Ph.D. in Physical Chemistry from Duke University, in Durham, NC. His research interests include relaxation and exchange phenomena and in vivo nuclear magnetic resonance spectroscopy and imaging.

Richard Semelka, MD, is Director of Magnetic Resonance Services, Professor, and Vice Chairman of Radiology at the University of North Carolina-Chapel Hill Medical School. He received his medical degree and residency training in radiology in his native Canada at the University of Manitoba, and completed a clinical research fellowship in MRI of the body at the University of California at San Francisco. Dr. Semelka has authored over 300 peer-reviewed articles, 12 textbooks including the Wiley *Abdominal-Pelvic MRI* and *Current Clinical Imaging* series and is an internationally acclaimed authority in the field.

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