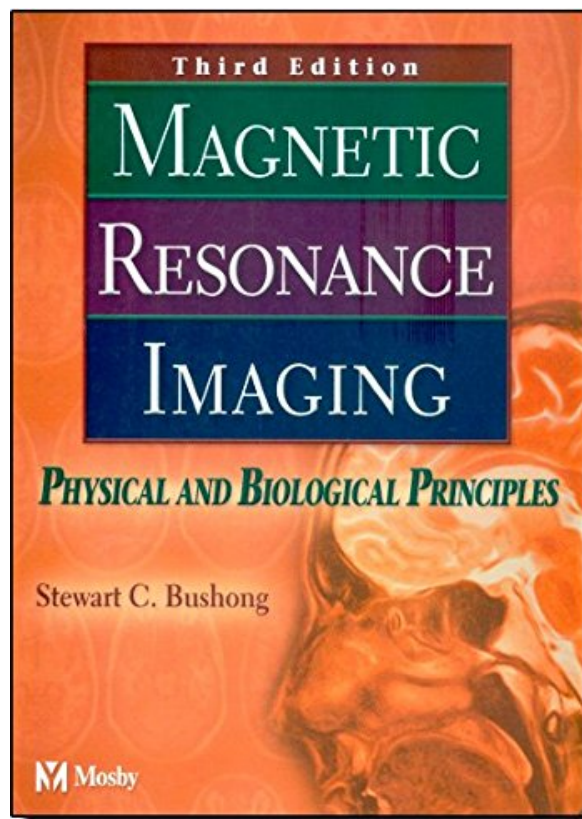
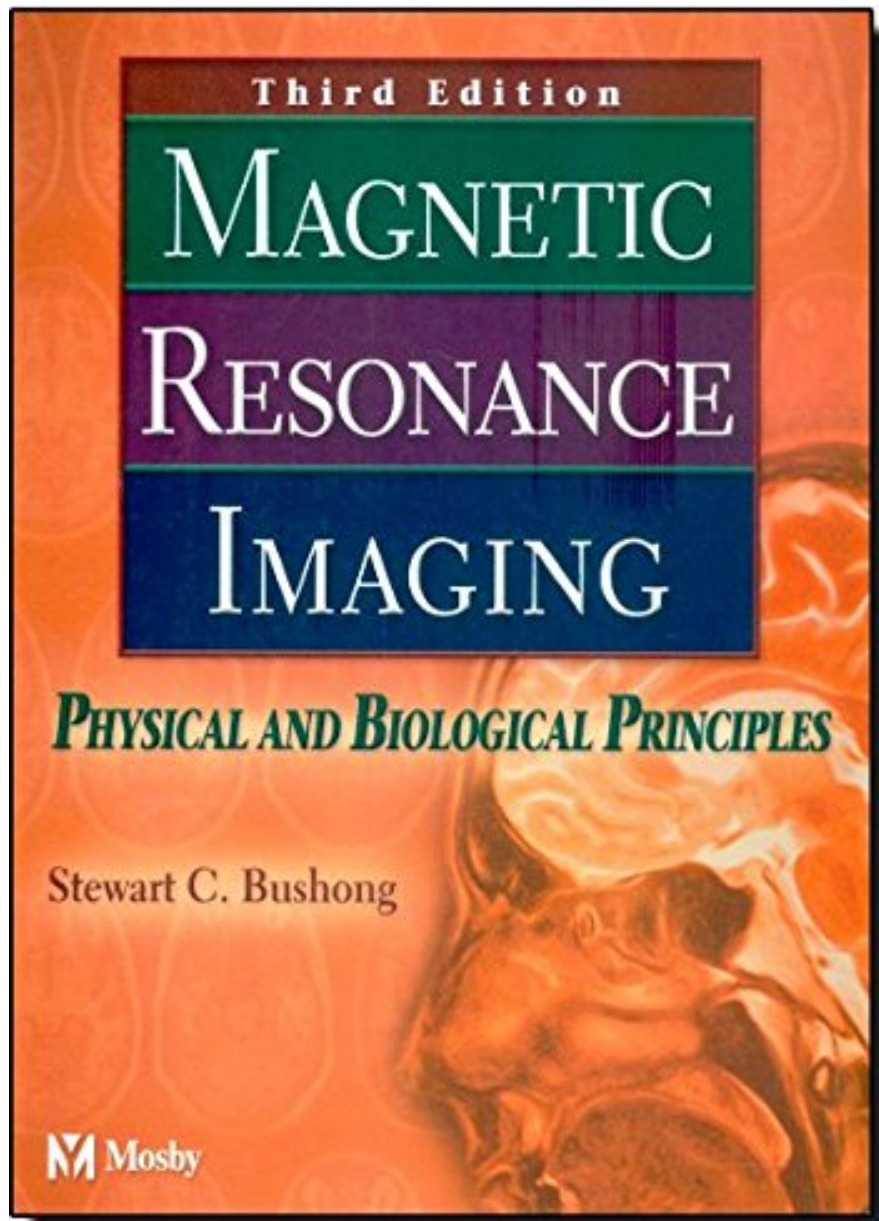


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## Review

"In summary, this is the best explanation of what lies behind MRI that I have read, taking what can be a dry subject and making it readily understandable and really interesting. I would recommend it to anyone starting their MRI training and anyone trying to teach MRI to others." Reviewed by RAD Magazine, June 2015

## About the Author

Stewart C Bushong, ScD, FACR, FACMP, Professor, Department of Radiology, Baylor College of Medicine, Houston, TX

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This book offers comprehensive, well-illustrated coverage of this specialized subject at a level that does not require an extensive background in math and physics. It presents the fundamentals and principles of conventional MRI, fast imaging techniques, and their applications. Beginning with an overview of the fundamentals of electricity and magnetism (Part 1), Parts 2 and 3 present an in-depth explanation of how MRI works. The latest imaging methods are presented in Parts 4 and 5, and the final section (Part 6) covers personnel and patient safety and administration issues. Perfect for student radiographers and practicing technologists preparing to take the MRI advanced certification exam offered by the American Registry of Radiologic Technologists (ARRT).

- Over 450 images, photos, and line drawings accompany each discussion, clarifying difficult material.
- Easy-to-read, comprehensive material addresses six important content areas in an engaging style that does not require an extensive background in math or physics, but still goes beyond superficial coverage.
- Appendices provide more complex mathematical content in The Bloch Equations, as well as a list of web addresses for professional organizations, scientific associations, and other sources of information relevant to the topics in the book.
- New chapters on Chemical Shift and Magnetization Transfer (chapter 19), Perfusion Imaging (chapter 24), Diffusion Imaging (chapter 25) and Cardiac MR Imaging (chapter 26) keep up with the significant advances in functional MRI (fMRI) and cardiac imaging techniques.
- Over 200 new illustrations make difficult concepts easy to understand - all pulse sequence diagrams have been revised for greater consistency with current scientific literature, and new images and line drawings have been added throughout to complement the extensive revision in many chapters.
- New learning tools (outlines, objectives, and challenge questions) have been added to each chapter with answers in the back of the book that let readers assess what they should learn from each chapter, review concepts, and solidify their understanding of key concepts.
- Two practice exams with 122 questions each include the appropriate number of test items for each category of the ARRT exam.
- New images give readers a look at what the new imaging equipment and techniques can produce.
- Extensive revisions, especially of chapters on imaging systems, image formation, pulse sequences, and applications, provide new content and updates.
- Sales Rank: #1059723 in Books
- Published on: 2003-03-14
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x 7.25" w x 1.00" l, 2.29 pounds
- Binding: Paperback
- 528 pages

## Features

- Excellent MRI registry Prep

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Bushong's book excellent for a whole range of people who want to understand the fundamentals of MRI

By Hardave S. Kharbanda

Magnetic Resonance Imaging: Physical and Biological Principles

This book is remarkable in the way that it explains the fundamentals of MRI so clearly while using very, very few equations. Prof. Bushong uses a huge number of tremendously creative -- and often funny -- illustrations to achieve this accomplishment. Although this book is naturally insufficient for those desiring a fully mathematical understanding of MRI, it is ideal (except for its lack of discussion of Functional MRI) for those who want a firm visual understanding of MRI physics, and it is also one of those rare books that explains so many practical details of \*actually using\* MRI machines -- their possible dimensions, strength, weight, associated costs, associated building requirements, etc. It could also be a great first read for those who will eventually delve into the subject mathematically, and finally, could be an excellent book for a physician, nurse, businessperson, or layperson who won't have to directly deal with MRI but who wants to have a solid grasp of how it works. I strongly recommend this book!

3 of 3 people found the following review helpful.

Magnetic Resonance Imaging

By dAVE

This edition is far superior to the first. Descriptions of pulse sequences are easily understood and the diagrams are very useful. Folks that like Peggy Woodward's book will find this one very similar.

It's worth the price for technologists studying for the national registry or just looking for a better understanding of MRI

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