

## Handbook Of Mri Pulse Sequences

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### Handbook Of Mri Pulse Sequences

To utilize an MRI scanner to the fullest extent, a conceptual understanding of its pulse sequences is crucial. Handbook of MRI Pulse Sequences offers a complete guide that can help the scientists, engineers, clinicians, and technologists in the field of MRI understand and better employ their scanner.

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Handbook of MRI Pulse Sequences Key Features. Readership. Researchers and clinicians in radiology, chemistry, biochemistry, pathology, psychology, neurology, and... Table of Contents. Part I: Background; Introduction. Part II: RF Pulses; RF Pulse Shapes; Basic RF Pulse Functions; Details. ...

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The development of newer and faster pulse sequences can be overwhelming to the clinician or new students to the field. The authors of Handbook of MRI Pulse Sequences have responded to the need for a comprehensive textbook that can be used by graduate students, MR scientists, radiologists, and the interested technologist. This book provides an excellent resource for necessary mathematical and practical information to better understand the "how and why" of MR pulse sequences.

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- Explains pulse sequences, their components, and the associated image reconstruction methods commonly used in MRI
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- Includes both non-mathematical and mathematical descriptions
- Contains numerous figures, tables, references, and worked example problems.

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introduced in their 1st year of training to the MR pulse sequences routinely used in clinical imaging, including various spin-echo, gradient-echo, inversion-recovery, echo-planar imaging, and MR angiographic sequences. However, to make optimal use of these techniques, radiologists also need a basic knowledge of the physics of MR imaging, includ-

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It should be on the shelf or next to the pulse programming computer of anyone who designs sequences or is a serious user of MRI/S methods of any type. The book will stand the test of time, even in a field as rapidly evolving as MRI, and will become a definitive classic." -- G.H. Glover, Stanford University School of Medicine (2005)

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The idea of writing a handbook on MRI pulse sequences, with selfcontained sections, was initiated by one of the authors (X.J.Z.) in the spring of 1999, but it was only through the effort of all three authors working in concert that the book took its current shape.

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