



# Principles of Magnetic Resonance Imaging

*By Dwight G Nishimura*

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## **Principles of Magnetic Resonance Imaging** By Dwight G Nishimura

This book presents the basic principles of magnetic resonance imaging (MRI), focusing on image formation, image content, and performance considerations. Emphasis is on the signal processing elements of MRI, particularly the Fourier transform relationships. Although developed as a teaching text for an electrical engineering course at Stanford University, the material should be accessible to those from other technical fields. The primary chapters (Chapters 1-7) cover the foundational material while the latter chapters (Chapters 8-11) provide brief overviews of extensions and selected topics.

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