



# MRI: Physics, Image Reconstruction, and Analysis (Devices, Circuits, and Systems)

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## MRI: Physics, Image Reconstruction, and Analysis (Devices, Circuits, and Systems)

The field of magnetic resonance imaging (MRI) has developed rapidly over the past decade, benefiting greatly from the newly developed framework of compressed sensing and its ability to drastically reduce MRI scan times. **MRI: Physics, Image Reconstruction, and Analysis** presents the latest research in MRI technology, emphasizing compressed sensing-based image reconstruction techniques.

The book begins with a succinct introduction to the principles of MRI and then:

- Discusses the technology and applications of  $T_{1\rho}$  MRI
- Details the recovery of highly sampled functional MRIs
- Explains sparsity-based techniques for quantitative MRIs
- Describes multi-coil parallel MRI reconstruction techniques
- Examines off-line techniques in dynamic MRI reconstruction
- Explores advances in brain connectivity analysis using diffusion and functional MRIs

Featuring chapters authored by field experts, **MRI: Physics, Image Reconstruction, and Analysis** delivers an authoritative and cutting-edge treatment of MRI reconstruction techniques. The book provides engineers, physicists, and graduate students with a comprehensive look at the state of the art of MRI.

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