



Quantitative MRI of the Spinal Cord

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Quantitative MRI of the Spinal Cord is the first book focused on quantitative MRI techniques with specific application to the human spinal cord. This work includes coverage of diffusion-weighted imaging, magnetization transfer imaging, relaxometry, functional MRI, and spectroscopy. Although these methods have been successfully used in the brain for the past 20 years, their application in the spinal cord remains problematic due to important acquisition challenges (such as small cross-sectional size, motion, and susceptibility artifacts). To date, there is no consensus on how to apply these techniques; this book reviews and synthesizes state-of-the-art methods so users can successfully apply them to the spinal cord.

Quantitative MRI of the Spinal Cord introduces the theory behind each quantitative technique, reviews each theory's applications in the human spinal cord and describes its pros and cons, and suggests a simple protocol for applying each quantitative technique to the spinal cord.

- Chapters authored by international experts in the field of MRI of the spinal cord
- Contains “cooking recipes”—examples of imaging parameters for each quantitative technique—designed to aid researchers and clinicians in using them in practice
- Ideal for clinical settings

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