



Quantitative Susceptibility Mapping: Magnetic Resonance Imaging of Tissue Magnetism

Yi Wang PhD

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Quantitative Susceptibility Mapping gives a systematic account of the fundamentals of physical concepts, technical algorithms, and biomedical applications associated with magnetic resonance imaging of tissue magnetism. Recent progresses in MRI phase analyses and in numerical optimization solvers of inverse problems and promising applications in studying iron and oxygen metabolisms and hemorrhage have attracted many people to investigate quantitative susceptibility mapping (QSM). The objective of this book is to provide a comprehensive and timely introduction for the newly formed and rapidly growing QSM community. Emphasis has been placed on clarity throughout the narrative. Detailed considerations are presented to clarify the subtleties of the physics of magnetism and magnetic resonance signals: • Thorough demonstrations of the forward problem from magnetic susceptibility to field. • Comprehensive descriptions of major approaches to solving the field to susceptibility inverse problem. • Specific examples of clinical and scientific applications. Engineers, physicists, and clinicians at all levels, from students to established investigators, will find Quantitative Susceptibility Mapping a useful aid in understanding the physical principles of magnetic resonance imaging of tissue magnetic properties.

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