



# Theory of Quantitative Magnetic Resonance Imaging

*Hernán Jara*

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qMRI is a rapidly evolving scientific field of high current interest because it has the potential of radically changing the clinical and research practices of magnetic resonance imaging (MRI). This focuses solely on the theoretical aspects of qMRI, which are treated and analyzed at three different spatial scales, specifically: i) the quantum physics scale of individual spins; ii) the semi-classical physics scale of spin packets; and iii) the imaging scale of voxels. Topics are presented paying particular attention to theoretical unification and mathematical uniformity.

### Contents:

- Introduction
- Elements of Imaging Theory
- Physics of Quantitative MRI
- Elements of Relaxation Theory
- QMRI Theory
- QMRI Processing
- Introduction to Applications of QMRI

**Readership:** Graduate students in physics and biomedical engineering disciplines, engineers and practitioners in biomedical engineering, MRI equipments and image processing industry.

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