

# Quantum Magnetic Resonance Imaging Diagnostics of Human Brain Disorders (Elsevier Insights)

Madan M Kaila, Rakhi Kaila



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Magnetic resonance imaging (MRI) is a medical imaging technique used to visualize detailed internal structure of the body. This book discusses the recent developments in the field of MRI and its application to the diagnosis of human brain disorders. In addition, it reviews the newly emerging concepts and technology, based on the multi-coherence imaging (MQCI). It explains how computer packages can be used to generate images in diseased states and compare them to in vivo results. This will help improve the diagnosis of brain disorders based on the real-time events happening on atomic and molecular quantum levels. This is important since quantum-based MRI would enable clinicians to detect brain tumors at the very early stages.

- Uses practical examples to explain the techniques making it easier to understand the concepts
- Uses diagrams to explain the physics behind the technique avoiding the use of complicated mathematical formulae



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