Preface

Magnetic resonance, absorption or emission of electromagnetic radiation by electrons or atomic nuclei in response to the application of certain magnetic fields, is a process by which a physical excitation (resonance) is set up via magnetism. This process was used to develop magnetic resonance imaging and Nuclear magnetic resonance spectroscopy technology. The principles of magnetic resonance are applied in the laboratory to analyze the atomic and nuclear properties of matter. It is also being used to develop Nuclear magnetic resonance quantum computers.[i]

In the present book, fifteen typical literatures about Magnetic Resonance published on international authoritative journals were selected to introduce the worldwide newest progress, which contains reviews or original researches on Cell Therapy, Echocardiography, myocardium, Cardiovascular magnetic resonance, Intracerebral Hemorrhage, Acute ischemic stroke, NMR instrumentation *ect*. We hope this book can demonstrate advances in Magnetic Resonance as well as give references to the researchers, students and other related people.

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[i] https://en.wikipedia.org/wiki/Magnetic_resonance