

# Magnetic Resonance and Its Applications

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## Reviews

An extremely wonderful book with perfect and lucid explanations. This really is for those who statte that there had not been a worth reading. Your way of life span will be convert when you comprehensive reading this book. (Effie Douglas)

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### MAGNETIC RESONANCE AND ITS APPLICATIONS



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Condition: New. Publisher/Verlag: Springer, Berlin | The book is devoted to the description of the fundamentals in the area of magnetic resonance. The book covers two domains: radiospectroscopy and quantum radioelectronics. Radiospectroscopy comprises nuclear magnetic resonance , electron paramagnetic resonance, nuclear quadrupolar resonance, and some other phenomena. The radiospectroscopic methods are widely used for obtaining the information on internal (nano, micro and macro) structure of objects. Quantum radioelectronics, which was developed on the basis of radiospectroscopic methods, deals with processes in quantum amplifiers, generators and magnetometers. We do not know analogues of the book presented. The book implies a few levels of the general consideration of phenomena, that can be useful for different groups of readers (students, PhD students, scientists from other scientific branches: physics, chemistry, physical chemistry, biochemistry, biology and medicine). Preface1. Interaction between nuclei and electrons and their interaction with external electromagnetic fieldsPart I Nuclear magnetic resonance (NMR)2. Basic principles of detection of nuclear magnetic resonance3. Nuclear magnetic relaxation4. Nuclear Magnetic Resonance in Liquids5. Nuclear magnetic resonance in diamagnetic solids6. Nuclear Magnetic Resonance in Liquid Crystals7. Nuclear magnetic resonance in magnetic materialsPart II Nuclear quadrupole resonance (NQR)8. Nuclear quadrupole resonance9. Experimental methods in NQRPart III Electron paramagnetic resonance (EPR)10. Basic interactions of an electron in solids11. Energy levels of paramagnetic center in crystal field12. Covalentcoupled paramagnetic13. Fine structure of EPR spectra in solids14. Electron-nuclear interactions and hyperfine structure of EPR spectraPart IV Double resonances and polarization transfer15. Double resonances16. Two-dimensional NMR Fourier spectroscopyPart V Quantum radiofrequency electronics (radioelectronics)17. Basic physical ideas of quantum radioelectronics18. Generators with molecular and atomic beams19. Quantum amplifiers based on electron paramagnetic resonance20. The use of optical radiation in quantum radioelectronics devices21. Magnetic resonance quantum magnetometrySymbols and AbbreviationsKeyword index | Format: Paperback | Language/Sprache: english | 232x163x47 mm | 782 pp.

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