



Nuclear Magnetic Resonance Spectroscopy

Frank A. Bovey, Peter A. Mirau, H. S. Gutowsky

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Nuclear Magnetic Resonance Spectroscopy, Second Edition focuses on two-dimensional nuclear magnetic resonance (NMR) spectroscopy, high resolution NMR of solids, water suppression, multiple quantum spectroscopy, and NMR imaging.

The selection first takes a look at the fundamental principles and experimental methods. Discussions focus on the NMR phenomenon, dipolar broadening and spin-spin relaxation, nuclear electric quadrupole relaxation, saturation, magnetic shielding and chemical shift, magnetic field, transitions between the nuclear energy levels, and resolution and sensitivity considerations. The manuscript then ponders on chemical shift, coupling of nuclear spins, and nuclear relaxation and chemical rate processes. Topics include spin lattice relaxation, spin-spin relaxation, spin decoupling and associated techniques, and description and analysis of spin systems.

The text examines two-dimensional NMR spectroscopy, macromolecules, and NMR of solids, including magic angle spinning, cross polarization, proton dipolar broadening, biopolymers, and chain motion in macromolecules.

The selection is a valuable source of data for readers interested in nuclear magnetic resonance spectroscopy.

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