



# Application of Nuclear Magnetic Resonance Spectroscopy in Organic Chemistry: International Series in Organic Chemistry: Volume 10

*L. M. Jackman, S. Sternhell*

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## **Application of Nuclear Magnetic Resonance Spectroscopy in Organic Chemistry: International Series in Organic Chemistry: Volume 10** L. M. Jackman, S. Sternhell

Applications of Nuclear Magnetic Resonance Spectroscopy in Organic Chemistry, Second Edition focuses on the applications of nuclear magnetic resonance spectroscopy to problems in organic chemistry and the theories involved in this kind of spectroscopy.

The book first discusses the theory of nuclear magnetic resonance, including dynamic and magnetic properties of atomic nuclei, nuclear resonance, and relaxation process. The manuscript also examines the experimental method. Topics include experimental factors that influence resolution and the shapes of absorption lines; measurement of line positions and identification of the chemical shift; and measurement of intensities.

The text reviews the theories of chemical effects in nuclear magnetic resonance spectroscopy and spin-spin multiplicity and the theory and applications of multiple irradiation. The book also tackles the theory of chemical shift, including the classification of shielding effects, local diamagnetic proton shielding, solvent effects, and contact shifts.

The publication is a dependable source of data for readers interested in the applications of nuclear magnetic resonance spectroscopy.



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