



High-Resolution NMR Techniques in Organic Chemistry (Tetrahedron Organic Chemistry Series, Vol. 19)

By Claridge, T.

Pergamon, 2000. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface. Acknowledgements. Introduction. The development of high-resolution NMR. Modern NMR and this book. Applying modern NMR techniques. References. Introducing High-resolution NMR. Nuclear spin and resonance. The vector model and pulse excitation. Time and frequency domains. Spin relaxation. Mechanisms for relaxation. References. Practical Aspects of High-resolution NMR. An overview of the NMR spectrometer. Data acquisition and processing. Preparing the sample. Preparing the spectrometer. Spectrometer calibrations. Spectrometer performance tests. References. One-dimensional Techniques. The single-pulse experiment. Spin decoupling methods. Spectrum editing with spin-echoes. Sensitivity enhancement and spectrum editing. Observing quadrupolar nuclei. References. Correlations through the Chemical Bond I: Homonuclear Shift Correlation. Introducing the second dimension. Correlation spectroscopy (COSY). Practical aspects of 2D NMR. Coherence and coherence transfer. Gradient-selected spectroscopy. Alternative COSY sequences. Total correlation spectroscopy (TOCSY). Correlating dilute spins: INADEQUATE. References. Correlations through the Chemical Bond II: Heteronuclear Shift Correlation. Introduction. Sensitivity. Heteronuclear single-bond correlation spectroscopy. Heteronuclear multiple-bond correlation spectroscopy. Traditional X-detected correlation spectroscopy. References. Separating Shifts and Couplings: J-resolved Spectroscopy. Introduction. Heteronuclear J-resolved spectroscopy. Homonuclear J-resolved spectroscopy. "Indirect" homonuclear J-resolved spectroscopy. References. Correlations through Space: The Nuclear Overhauser Effect. Part I: Theoretical Aspects. Introduction. Definition of...



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