



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.

Reviews

This book is definitely worth acquiring. I have go through and so i am certain that i will likely to read through again again in the future. Its been printed in an exceptionally basic way in fact it is only after i finished reading this publication in which actually altered me, change the way in my opinion.

-- **Andres Bashirian**

Comprehensive guide for publication fanatics. This really is for all who statte there had not been a well worth reading through. I discovered this ebook from my dad and i encouraged this book to find out.

-- **Lacy Goldner**