



Modern NMR Spectroscopy: A Guide for Chemists (2nd Revised edition)

By Jeremy K.M. Sanders, Brian K. Hunter

Oxford University Press. Paperback. Book Condition: new. BRAND NEW PRINT ON DEMAND., Modern NMR Spectroscopy: A Guide for Chemists (2nd Revised edition), Jeremy K.M. Sanders, Brian K. Hunter, Nuclear magnetic resonance (NMR) spectroscopy is the most powerful research tool used in chemistry today, but many chemists have yet to realize its true potential. Recent advances in NMR have led to a formidable array of new techniques - and acronyms - which leaves even the professional spectroscopist bewildered. How, then, can chemists decide which approach will solve their particular structural or mechanistic problem? This book provides a non-mathematical, descriptive approach to modern NMR spectroscopy, taking examples from organic, inorganic, and biological chemistry. It also contains much practical advice about the acquisition and use of spectra. Starting from the simple 'one pulse' sequence, the text employs a 'building block' approach to lead naturally to multiple pulse and two-dimensional NMR. Spectra of readily available compounds illustrate each technique. One- and two-dimensional methods are integrated in three chapters which show how to solve problems by making connections between spins through bonds, through space, or through exchange. There are also chapters on spectrum editing and solids. The final chapter contains a case history which...



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