



High-Resolution NMR Techniques in Organic Chemistry

Timothy D.W. Claridge

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High-Resolution NMR Techniques in Organic Chemistry, Third Edition, describes the most important NMR spectroscopy techniques for structure elucidation of organic molecules and the investigation of their behavior in solution. Appropriate for students as well as chemists, this thorough revision covers the practical aspects of NMR instrumentation and explores the capabilities and the limitations of key one-dimensional and two-dimensional analytical methods including J-resolved, nuclear Overhauser, diffusion, and experimental spectroscopic techniques.

The Third Edition includes valuable updates on recent hardware developments and common and novel techniques. It also features an entirely new chapter on using NMR methods to study protein-ligand binding processes, reflecting this area's growing importance for life science and medicinal chemistry research in industry and academia. Using accessible figures to present and explain techniques, the book limits complex mathematical descriptions and provides multiple worked examples throughout. Additionally, a new, cumulative "Example Problem Solving" chapter demonstrates the application of described methods with readily available samples; readers can view the spectra, follow the interpretation, and collect their own data for comparison and practice.

A trusted authority on this critical expertise, *High-Resolution NMR Techniques in Organic Chemistry, Third Edition*, is an essential resource for every NMR manager and chemistry student.

- Uniquely covers both the hardware and the analysis of NMR techniques
- Includes valuable updates on the important, growing area of Ligand-protein binding, recent hardware developments, and additional practical examples
- Focuses on methods and examples vital for the practicing and student chemist

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