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Organic Structure Determination Using 2-D NMR Spectroscopy: A Problem-Based Approach

Jeffrey H. Simpson

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Organic Structure Determination Using 2-D NMR Spectroscopy: A Problem-Based Approach, Second Edition, provides an introduction to the use of two-dimensional (2-D) nuclear magnetic resonance (NMR) spectroscopy to determine organic structure.

The book begins with a discussion of the NMR technique, while subsequent chapters cover instrumental considerations; data collection, processing, and plotting; chemical shifts; symmetry and topicity; through-bond effects; and through-space effects. The book also covers molecular dynamics; strategies for assigning resonances to atoms within a molecule; strategies for elucidating unknown molecular structures; simple and complex assignment problems; and simple and complex unknown problems. Each chapter includes problems that will enable readers to test their understanding of the material discussed.

- Presents strategies for assigning resonances to known structures and for deducing structures of unknown organic molecules based on their NMR spectra
- Contains 30 known and 30 unknown structure determination problems
- Features a supporting website from which instructors can download the structures of the unknowns in selected chapters, digital versions of all figures, and raw data sets for processing

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