Two-Dimensional NMR Methods for Establishing Molecular Connectivity

A Chemist's Guide to Experiment Selection, Performance, and Interpretation

By Gary E. Martin and Andrew S. Zektzer
Resumo de Two-Dimensional NMR Methods for Establishing Molecular Connectivity: A Chemist's Guide to Experiment Selection, Performance, and Interpretation

This guide to two-dimensional NMR spectroscopy helps the novice who wants to learn the technique, but needs a path through the bewildering array of method acronyms and the mathematical rigor found in most books. The authors provide a clear explanation of experiment performance, parameter selection, data processing and presentation as well as a description of what information is provided by each experiment and how it is extracted and interpreted. They group presentations of two-dimensional NMR experiments according to their purpose, e.g. COSY, LRCOSY, ZQCOSY, DQCOSY ... for establishing proton-proton connectivities. The book also presents spectra of the same model compound using various uses to enable the reader to make direct comparisons and facilitate his experiment selection. Examples of the concerted utilization of various two-dimen NMR experiments to solve complex structural problems are also given.

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