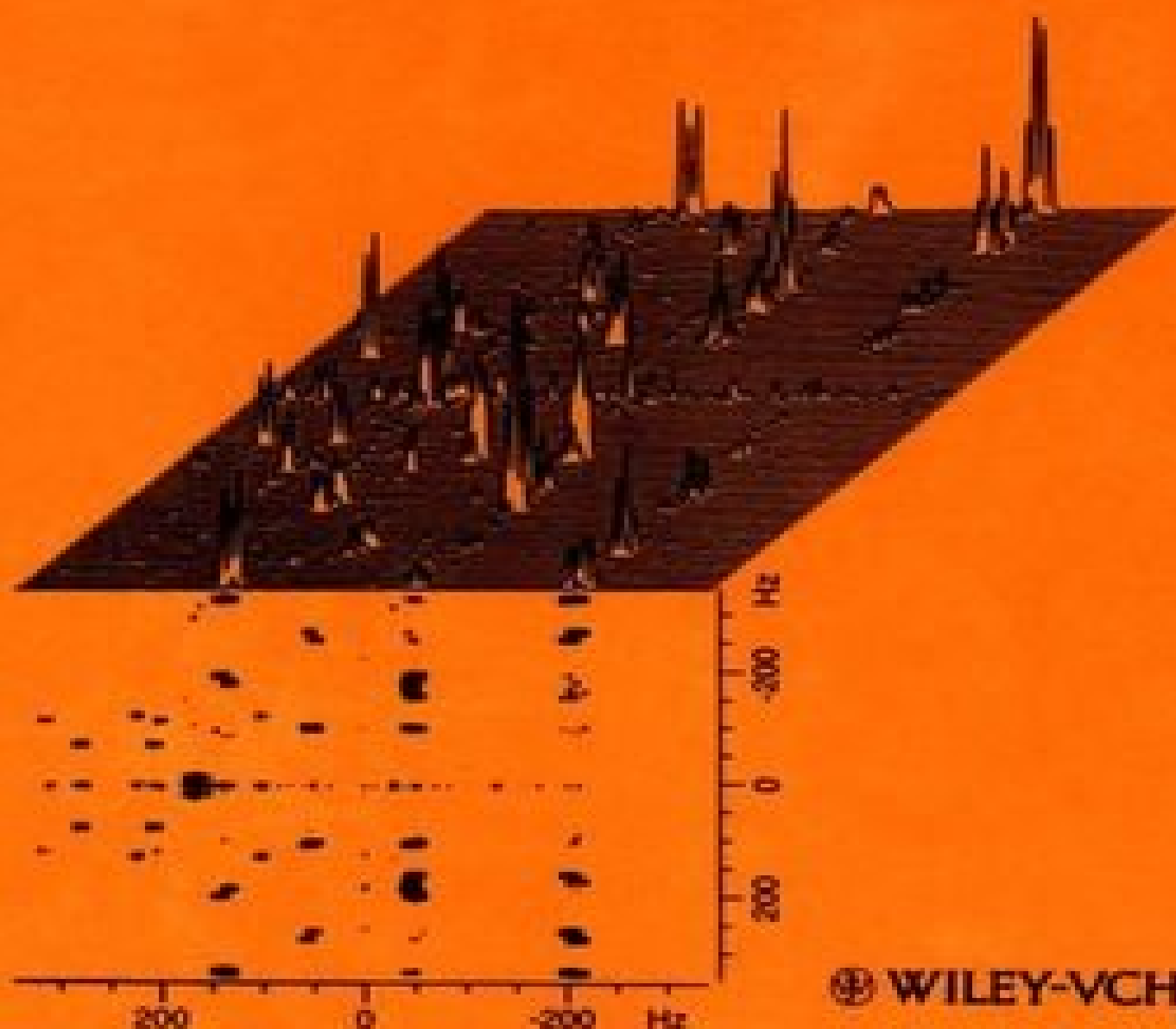


Two-Dimensional NMR Methods for Establishing Molecular Connectivity

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

By Gary E. Martin and Andrew S. Zektzer



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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 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 function, e.g.

COSY, LRCOSY, ZQCOSY, DQCOSY ... for establishing proton-proton connectivities. The book also presents spectra of the same model compound using various pulses to enable the reader to make direct comparisons and facilitate his pulse selection.

Examples of the concerted utilization of various two-dimensional NMR experiments to solve complex structural problems are also given.

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