



A Complete Introduction to Modern NMR Spectroscopy

By Roger S. Macomber

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Clear, accessible coverage of modern NMR spectroscopy-for students and professionals in many fields of science

Nuclear magnetic resonance (NMR) spectroscopy has made quantum leaps in the last decade, becoming a staple tool in such divergent fields as chemistry, physics, materials science, biology, and medicine. That is why it is essential that scientists working in these areas be fully conversant with current NMR theory and practice.

This down-to-basics text offers a comprehensive, up-to-date treatment of the fundamentals of NMR spectroscopy. Using a straightforward approach that develops all concepts from a rudimentary level without using heavy mathematics, it gives readers the knowledge they need to solve any molecular structure problem from a complete set of NMR data. Topics are illustrated throughout with hundreds of figures and actual spectra. Chapter-end summaries and review problems with answers are included to help reinforce and test understanding of key material.

From NMR studies of biologically important molecules to magnetic resonance imaging, this book serves as an excellent all-around primer on NMR spectroscopic analysis.

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Editorial Review

From the Publisher

Nuclear magnetic resonance (NMR) spectroscopy is the study of molecular structure. It is a growing technique particularly in biochemistry and medicinal chemistry, that provides detailed information on molecular structure and dynamics that other methods cannot. Assuming only a first-year chemistry course for background, this practical guide describes all the necessary details of NMR spectral analysis.

From the Back Cover

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About the Author

ROGER S. MACOMBER was Professor of Chemistry at the University of Cincinnati, Ohio, from 1969-1997, and is currently Professor of Chemistry at Pepperdine University. He is the author of nearly 100 scientific and professional articles, as well as several monographs, including *The Vocabulary of Organic Chemistry*, *NMR Spectroscopy: Essential Theory and Practice*, and *Organic Chemistry, Volumes I and II*.

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