



Carbon-13 NMR Spectroscopy of Biological Systems

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This book is intended to provide an in-depth understanding of ^{13}C NMR as a tool in biological research. ^{13}C NMR has provided unique information concerning complex biological systems, from proteins and nucleic acids to animals and humans. The subjects addressed include multidimensional heteronuclear techniques for structural studies of molecules in the liquid and solid states, the investigation of interactions in model membranes, the elucidation of metabolic pathways *in vitro* and *in vivo* on animals, and noninvasive metabolic studies performed on humans. The book is a unique mix of NMR methods and biological applications which makes it a convenient reference for those interested in research in this interdisciplinary area of physics, chemistry, biology, and medicine.

Key Features

- * An interdisciplinary text with emphasis on both ^{13}C NMR methodology and the relevant biological and biomedical issues
- * State-of-the-art ^{13}C NMR techniques are described; Whenever possible, their advantages over other approaches are emphasized
- * The chapters constitute comprehensive reviews and are written by acknowledged experts in their fields
- * Chapters are written in a clear style, and include a large number of illustrations and comprehensive references

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