



# NMR Spectroscopy of Biological Solids (Practical Spectroscopy)

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Over the past decade, a myriad of techniques have shown that solid-state nuclear magnetic resonance (NMR) can be used in a broad spectrum of applications with exceptionally impressive results. Solid-state NMR results can yield high-resolution details on the structure and function of many important biological solids, including viruses, fibril-forming molecules, and molecules embedded in the cell membrane.

Filling a void in the current literature, **NMR Spectroscopy of Biological Solids** examines all the recent developments, implementation, and interpretation of solid-state NMR experiments and the advantages of applying them to biological systems. The book emphasizes how these techniques can be used to realize the structure of non-crystalline systems of any size. It explains how these isotropic and anisotropic couplings interactions are used to determine atomic-level structures of biological molecules in a non-soluble state and extrapolate the three-dimensional structure of membrane proteins using magic-angle spinning (MAS). The book also focuses on the use of multidimensional solid-state NMR methods in the study of aligned systems to provide basic information about the mechanisms of action of a variety of biologically active molecules.

Addressing principles, methods, and applications, this book provides a critical selection of solid-state NMR methods for solving a wide range of practical problems that arise in both academic and industrial research of biomolecules in the solid state. **NMR Spectroscopy of Biological Solids** is a forward-thinking resource for students and researchers in analytical chemistry, bioengineering, material sciences, and structural genomics.

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