

Protein NMR Techniques, 3rd ed.

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The field of protein NMR spectroscopy has rapidly expanded into new areas of biochemistry, molecular biology and cell biology research that were impossible to study as recently as ten years ago. The potential to study macromolecular systems that were once considered too big or too transient or too complex by using NMR spectroscopy is now being realized with the development of innovative technologies. Standard NMR technologies are also getting a facelift in part due to the pervasive nature of high throughput approaches in biochemical and biomedical research. This book presents a comprehensive description of the latest innovations in the field of protein NMR. It focuses on the application of NMR to biochemistry, molecular and cell biology while avoiding excessive repetition of existing material, which is readily available through a number of excellent texts and reviews that cover topics relevant to studying proteins by NMR. Rather than reiterating the fundamental principles behind NMR methodology, the practical aspects of experimental design are emphasized, with descriptions that combine a brief theoretical background with practical advice and examples.

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