



# Structural Biology: Practical NMR Applications

By Quincy Teng

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This 2nd edition begins with an overview of NMR development and applications in biological systems. It describes recent developments in instrument hardware and methodology. Chapters highlight the scope and limitation of NMR methods. While detailed math and quantum mechanics dealing with NMR theory have been addressed in several well-known NMR volumes, chapter two of this volume illustrates the fundamental principles and concepts of NMR spectroscopy in a more descriptive manner. Topics such as instrument setup, data acquisition, and data processing using a variety of offline software are discussed. Chapters further discuss several routine strategies for preparing samples, especially for macromolecules and complexes. The target market for such a volume includes researchers in the field of biochemistry, chemistry, structural biology and biophysics.

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## **Editorial Review**

From the Back Cover

Over the years since NMR was first applied to solve problems in structural biology, both NMR instrument hardware and methodology have been dramatically developed. This book offers a much-needed update to the 2005 first edition, and will be of critical importance to those who routinely use NMR to study various biological systems as well as a textbook. Thus, the book is organized with experimentalists in mind, whether they are instructors or students. For those who have minimal background in NMR structural biology, this book will provide fresh perspective and insight; those who are already well-versed in NMR research will find cutting edge updates and new information and methods that are useful to their research.

Because understanding fundamental principles and concepts of NMR spectroscopy is essential for the application of NMR methods to research projects, the book begins with an introduction to basic NMR principles. Next, NMR instrumentation is discussed starting with hardware components. Topics include magnetic field homogeneity and stability, signal generation and detection, probe circuits, cryogenic probe, analog-to-digital conversion, and test equipment. A typical specification for a NMR spectrometer is also included in the chapter. There is also a chapter covering NMR sample preparation, a process that is often the bottleneck for the success of the NMR projects. Several routine strategies for preparing samples, especially for macromolecules as well as complexes are dealt with in detail.

## **Users Review**

**From reader reviews:**

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