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# Nuclear Magnetic Resonance Probes of Molecular Dynamics

Robert Tycko (Ed.)



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# Nuclear Magnetic Resonance Probes Of Molecular Dynamics

**Andrew J. Dingley, A. J. Dingley, Steven  
M. Pascal**



## **Nuclear Magnetic Resonance Probes Of Molecular Dynamics:**

**Nuclear Magnetic Resonance Probes of Molecular Dynamics** R. Tycko, 2003-07-31 Nuclear Magnetic Resonance Probes of Molecular Dynamics describes the theoretical basis and experimental techniques that make modern NMR spectroscopy a powerful and flexible tool for probing molecular dynamics in chemical physical and biochemical systems Individual chapters written by leaders in the development and application of NMR from around the world treat systems that range from synthetic polymers liquid crystals and catalysts to proteins and oligonucleotides and techniques that include deuterium NMR magic angle spinning multidimensional spectroscopy and magnetic resonance imaging A combination of elementary and advanced material makes the book a useful introduction to the field for students at the graduate level as well as an important reference for practising NMR spectroscopists

**Nuclear Magnetic Resonance** G A Webb, 2007-10-31 As a spectroscopic method Nuclear Magnetic Resonance NMR has seen spectacular growth over the past two decades both as a technique and in its applications Today the applications of NMR span a wide range of scientific disciplines from physics to biology to medicine Each volume of Nuclear Magnetic Resonance comprises a combination of annual and biennial reports which together provide comprehensive of the literature on this topic This Specialist Periodical Report reflects the growing volume of published work involving NMR techniques and applications in particular NMR of natural macromolecules which is covered in two reports NMR of Proteins and Acids and NMR of Carbohydrates Lipids and Membranes For those wanting to become rapidly acquainted with specific areas of NMR this title provides unrivalled scope of coverage Seasoned practitioners of NMR will find this an invaluable source of current methods and applications Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research Compiled by teams of leading authorities in the relevant subject areas the series creates a unique service for the active research chemist with regular in depth accounts of progress in particular fields of chemistry Subject coverage within different volumes of a given title is similar and publication is on an annual or biennial basis

*Ab Initio and Nuclear Magnetic Resonance Probes of Molecular Structure and Dynamics* Ryan Andrew Olsen, 2005

**NMR Studies of Translational Motion** William S. Price, 2009-07-30 Overview of NMR theory and applications in fluid systems fully referenced for research use

*Nuclear Magnetic Resonance* A. E. Aliev, 2012 As a spectroscopic method nuclear magnetic resonance NMR has seen spectacular growth both as a technique and in its applications Today s applications of NMR span a wide range of scientific disciplines from physics to biology to medicine Each volume of Nuclear Magnetic Resonance comprises a combination of annual and biennial reports which together provide comprehensive coverage of the literature on this topic This Specialist Periodical Report reflects the growing volume of published work involving NMR techniques and applications in particular NMR of natural macromolecules which is covered in two reports NMR of Proteins and Nucleic Acids and NMR of Carbohydrates Lipids and Membranes In his foreword to the first volume the then editor Professor Robin Harris announced that the series would be a discussion on the phenomena of NMR

and that articles will be critical surveys of the literature This has certainly remained the case throughout the series and in line with its predecessors Volume 40 aims to provide a comprehensive coverage of the relevant NMR literature For the current volume this relates to publications appearing between June 2009 and May 2010 the nominal period of coverage in volume 1 was July 1970 to June 1971 Compared to the previous volume there are some new members of the reporting team Theoretical Aspects of Spin Spin Couplings are covered by J Jazwinski while E Swiezewska and J Wojcik provide an account of NMR of Carbohydrates Lipids and Membranes Annual Reports on NMR Spectroscopy Graham A. Webb,2014-07-22

Nuclear magnetic resonance NMR is an analytical tool used by chemists and physicists to study the structure and dynamics of molecules In recent years no other technique has gained such significance as NMR spectroscopy It is used in all branches of science in which precise structural determination is required and in which the nature of interactions and reactions in solution is being studied Annual Reports on NMR Spectroscopy has established itself as a premier means for the specialist and non specialist alike to become familiar with new techniques and applications of NMR spectroscopy This volume of Annual Reports on NMR Spectroscopy focuses on the analytical tools used by chemists and physicists taken together with other volumes of this series an excellent account of progress in NMR and its many applications is provided and anyone using NMR will find interest in this Serial *Biomolecular solid-state NMR: Methods and applications* Amir Goldbourt,Loren B. Andreas,Józef Romuald Lewandowski,2023-04-19

**Nuclear Spin Relaxation in Liquids** Jozef Kowalewski,Lena Maler,2006-03-15 Nuclear magnetic resonance NMR is widely used across many fields because of the rich data it produces and some of the most valuable data come from the study of nuclear spin relaxation in solution While described to varying degrees in all major NMR books spin relaxation is often perceived as a difficult if not obscure topic and an accessible cohesive treatment has been nearly impossible to find Collecting relaxation theory experimental techniques and illustrative applications into a single volume this book clarifies the nature of the phenomenon shows how to study it and explains why such studies are worthwhile Coverage ranges from basic to rigorous theory and from simple to sophisticated experimental methods and the level of detail is somewhat greater than most other NMR texts Topics include cross relaxation multispin phenomena relaxation studies of molecular dynamics and structure and special topics such as relaxation in systems with quadrupolar nuclei and paramagnetic systems Avoiding overly demanding mathematics the authors explain relaxation in a manner that anyone with a basic familiarity with NMR can follow regardless of their specialty The focus is on illustrating and explaining the physical nature of the phenomena rather than the intricate details Nuclear Spin Relaxation in Liquids Theory Experiments and Applications forms useful supplementary reading for graduate students and a valuable desk reference for NMR spectroscopists whether in chemistry physics chemical physics or biochemistry *Novel NMR and EPR Techniques* J. Dolinsek,Marija Vilfan,Slobodan Zumer,2006-04-20 A survey of recent research in the fields of condensed matter physics and chemistry based on novel NMR and ESR techniques Applications include quantum computing metal nanoparticles low

dimensional magnets fullerenes as atomic cages superconductors porous media and laser assisted studies The book is dedicated to Professor Robert Blinc on the occasion of his seventieth birthday in appreciation of his remarkable scientific accomplishments in the NMR of condensed matter     *Experimental Approaches of NMR Spectroscopy II* The NMR Society of Japan,2025-03-14 This book describes advanced developments in the methodology and applications of NMR spectroscopy in the life science and materials science fields In this book experts in the NMR field have contributed an exciting range of topics that cover recent advances in structural and dynamic aspects of material molecules such as silk fibrils polymer materials and organic light emitting diodes and biological molecules such as natural products glycoproteins and ribonucleic acid RNA This book emphasizes the experimental details for new researchers to use NMR spectroscopy and pick up the potential of this technique It is also designed for those who are involved in either developing the technique or expanding the NMR application field by applying them to specific samples The Nuclear Magnetic Resonance Society of Japan has organized this book not only for NMR members of Japan but also for readers worldwide who are interested in using NMR spectroscopy extensively     **Index Medicus** ,2001 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

*Biomolecular Spectroscopy: Advances from Integrating Experiments and Theory* ,2013-09-04 Published continuously since 1944 Advances in Protein Chemistry and Structural Biology has been a continuous essential resource for protein chemists Covering reviews of methodology and research in all aspects of protein chemistry including purification expression proteomics modeling and structural determination and design each volume brings forth new information about protocols and analysis of proteins while presenting the most recent findings from leading experts in a broad range of protein related topics Covers reviews of methodology and research in all aspects of protein chemistry Brings forth new information about protocols and analysis of proteins while presenting the most recent findings from leading experts in a broad range of protein related topics     **DNA Repair Enzymes: Structure, Biophysics, and Mechanism** ,2017-07-11 DNA Repair Enzymes Part B Volume 592 is the latest volume in the Methods in Enzymology series and the first part of a thematic that focuses on DNA Repair Enzymes Topics in this updated volume include MacroBac New Technologies for Robust and Efficient Large Scale Production of Recombinant Multiprotein Complexes Production and Assay of Recombinant Multisubunit Chromatin Remodeling Complexes Analysis of Functional Dynamics of Modular Multidomain Proteins by SAXS and NMR the Use of Single Cysteine Variants for Trapping Transient States in DNA Mismatch Repair and Structural Studies of RNases H2 as an Example of Crystal Structure Determination of Protein Nucleic Acid Complexes Includes contributions from leading authorities working in enzymology Focuses on DNA repair enzymes Informs and updates on all the latest developments in the field of enzymology     **Biomolecular NMR Spectroscopy** Andrew J. Dingley,A. J. Dingley,Steven M. Pascal,2011 Nuclear Magnetic Resonance NMR spectroscopy is the most powerful technique for characterisation of biomolecular structures at atomic resolution in the solution state This timely book entitled Biomolecular NMR Spectroscopy focuses on the latest state

of the art NMR techniques for characterisation of biological macromolecules in the solid and solution state The editors Dr Andrew Dingley University of Auckland New Zealand and Dr Steven Pascal Massey University New Zealand have organised the book into four sections covering the following topics i sample preparation ii structure and dynamics of proteins iii structure and dynamics of nucleic acids and protein nucleic acid complexes and iv rapid and hybrid techniques including the latest advances in NMR data acquisition and structural analysis and approaches that combine NMR data with data from complementary physical techniques The book will be a valuable resource for experienced scientists in academia government and public services and in industry It will also be suitable for newcomers and graduate students entering the field of biomolecular NMR spectroscopy

*Modern Protein Chemistry* Gary C. Howard, William E. Brown, 2001-09-12 In recent years interest in proteins has surged This resurgence has been driven by the expansion of the post genomic era when structural genomics and proteomics require new techniques in protein chemistry and new applications of older techniques Protein chemistry methods are used by nearly every discipline of biomedical research Many techniques

**NMR of Quadrupolar Nuclei in Solid Materials** Roderick E. Wasylishen, Sharon E. Ashbrook, Stephen Wimperis, 2012-12-19 NMR OF QUADRUPOLEAR NUCLEI IN SOLID MATERIALS Over the past 20 years technical developments in superconducting magnet technology and instrumentation have increased the potential of NMR spectroscopy so that it is now possible to study a wide range of solid materials In addition one can probe the nuclear environments of many other additional atoms that possess the property of spin In particular it is possible to carry out NMR experiments on isotopes that have nuclear spin greater than  $\frac{1}{2}$  i.e. quadrupolar nuclei Since more than two thirds of all NMR active isotopes are quadrupolar nuclei applications of NMR spectroscopy with quadrupolar nuclei are increasing rapidly The purpose of this handbook is to provide under a single cover the fundamental principles techniques and applications of quadrupolar NMR as it pertains to solid materials Each chapter has been prepared by an expert who has made significant contributions to our understanding and appreciation of the importance of NMR studies of quadrupolar nuclei in solids The text is divided into three sections The first provides the reader with the background necessary to appreciate the challenges in acquiring and interpreting NMR spectra of quadrupolar nuclei in solids The second presents cutting edge techniques and methodology for employing these techniques to investigate quadrupolar nuclei in solids The final section explores applications of solid state NMR studies of solids ranging from investigations of dynamics characterizations of biological samples organic and inorganic materials porous materials glasses catalysts semiconductors and high temperature superconductors

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in the unit cell via computational methods has added significantly to the practice of NMR crystallography. Diffraction experts will increasingly welcome NMR as an allied technique in their structural analyses. Indeed it may be that in the future crystal structures will be determined by simultaneously fitting diffraction patterns and NMR spectra. This Handbook is organised into six sections. The first contains an overview and some articles on fundamental NMR topics followed by a section concentrating on chemical shifts and one on coupling interactions. The fourth section contains articles describing how NMR results relate to fundamental crystallography concepts and to diffraction methods. The fifth section concerns specific aspects of structure such as hydrogen bonding. Finally four articles in the sixth section give applications of NMR crystallography to structural biology, organic pharmaceutical chemistry, inorganic materials chemistry and geochemistry. About EMR Handbooks. eMagRes Handbooks. The Encyclopedia of Magnetic Resonance up to 2012 and eMagRes from 2013 onward publish a wide range of online articles on all aspects of magnetic resonance in physics, chemistry, biology and medicine. The existence of this large number of articles written by experts in various fields is enabling the publication of a series of EMR Handbooks. eMagRes Handbooks on specific areas of NMR and MRI. The chapters of each of these handbooks will comprise a carefully chosen selection of articles from eMagRes. In consultation with the eMagRes Editorial Board the EMR Handbooks. eMagRes Handbooks are coherently planned in advance by specially selected Editors and new articles are written together with updates of some already existing articles to give appropriate complete coverage. The handbooks are intended to be of value and interest to research students, postdoctoral fellows and other researchers learning about the scientific area in question and undertaking relevant experiments whether in academia or industry. Have the content of this Handbook and the complete content of eMagRes at your fingertips. Visit [www.wileyonlinelibrary.com/ref/eMagRes](http://www.wileyonlinelibrary.com/ref/eMagRes). View other eMagRes publications here.

*Characterization and Analysis of Polymers* Wiley, 2008-02-08. Based on Wiley's renowned Encyclopedia of Polymer Science and Technology, this book provides coverage of key methods of characterization of the physical and chemical properties of polymers including atomic force microscopy, chromatographic methods, laser light scattering, nuclear magnetic resonance and thermal analysis among others. Written by prominent scholars from around the world, this reference presents over twenty-five self-contained articles on the most used analytical techniques currently practiced in polymer science.



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