
NMR of Newly Accessible Nuclei

Volume I

CHEMICAL AND BIOCHEMICAL
APPLICATIONS

Edited by
Pierre Laszlo

Nmr Of Newly Accessible Nuclei Volume 1 Chemical And Biochemical Applications

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NMR of Newly Accessible Nuclei; Vol. 1: Chemical and Biochemical Applications [Vol 1]. Laszlo P.,1983

Chemical and Biochemical Applications Pierre Laszlo,2012-12-02 NMR of Newly Accessible Nuclei Volume 1 Chemical and Biochemical Applications is a 10 chapter text that explores the properties advantages developments and chemical and biochemical applications of NMR technique This book describes first the operation of an NMR spectrometer under its two aspects namely the instrumental and the computational aspects The next chapters are devoted to some of the most important pulse sequences The discussion then shifts to the various factors determining the position of the observed absorption and those responsible for the various relaxation processes The last chapters deal with the specific applications of NMR including in cation salvation calcium binding proteins polyelectrolyte systems halogens and antibiotic ionophores This book is of value to inorganic and analytical chemists and biophysicists *Modern Nmr Techniques and Their Application in Chemistry*

Millicent Popov,1990-09-28 Details theory methods and successful application of NMR technology for chemists chemical engineers and biochemists those with specialized knowledge of NMR spectroscopy and those who want to catch up with the spectacular evolution of the field during the last decade Reviews one dimensional NMR [Spectroscopic Properties of Inorganic and Organometallic Compounds](#) G Davidson,E A V Ebsworth,2007-10-31 [Spectroscopic Properties of Inorganic and Organometallic Compounds](#) provides a unique source of information on an important area of chemistry Divided into sections mainly according to the particular spectroscopic technique used coverage in each volume includes NMR with reference to stereochemistry dynamic systems paramagnetic complexes solid state NMR and Groups 13 18 nuclear quadrupole resonance spectroscopy vibrational spectroscopy of main group and transition element compounds and coordinated ligands and electron diffraction Reflecting the growing volume of published work in this field researchers will find this Specialist Periodical Report an invaluable source of information on current methods and applications Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research Compiled by teams of leading experts in their specialist fields this series is designed to help the chemistry community keep current with the latest developments in their field Each volume in the series is published either annually or biennially and is a superb reference point for researchers www.rsc.org spr

[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

Physical Methods for Inorganic Biochemistry John R. Wright, Wayne A. Hendrickson, Shigemasa Osaki, Gordon T. James, 2012-12-06 This volume is intended for students and professionals in diverse areas of the biological and biochemical sciences It is oriented to those who are unfamiliar with the use of physical methods in studies of the biological elements We hope the reader will find the material a helpful reference for other volumes of this series as well as the general literature and some may see ways to adopt these techniques in their own pursuits Every effort has been made to avoid an abstruse presentation It should be clear that one individual cannot be expert in all the disciplines considered here and the authors recognize that fact with sincere humility As may be expected of an introductory reference most of our attention was focused on the commonly used methods To balance this we have included a few examples of approaches which are promising but relatively undeveloped at this time Also an emphasis has been placed on element selectivity It is impossible to envision the course of future events and a volume which deals with instrumentation is especially prone to become outdated Nevertheless any valid approach to a scientific question should be applicable indefinitely

NMR of Newly Accessible Nuclei: Chemically and biochemically important elements Pierre Laszlo, 1983

NMR of Newly Accessible Nuclei Pierre Laszlo, 1983 NMR of Newly Accessible Nuclei Volume 1 Chemical and Biochemical Applications is a 10 chapter text that explores the properties advantages developments and chemical and biochemical applications of NMR technique This book describes first the operation of an NMR spectrometer under its two aspects namely the instrumental and the computational aspects The next chapters are devoted to some of the most important pulse sequences The discussion then shifts to the various factors determining the position of the observed absorption and those responsible for the various relaxation processes

Th *New Technical Books* New York Public Library, 1985

Spectroscopic Properties of Inorganic and Organometallic Compounds, 1985 *Unusual Structures and Physical Properties in Organometallic Chemistry* Marcel Gielen, Rudolph Willem, Bernd Wrackmeyer, 2003-08-01 The principal idea of this volume is to offer a Capita Selecta of unconventional and thought provoking topics in organometallic chemistry presented by experts in each field As intended this approach leads either to reviews covering a specific uncommon class of organometallic compounds or to overviews which relate uncommon physical properties with various classes of organometallic compounds The contributions are streamlined thus onto two main axes unusual properties reflecting structures and bonding situations on the one hand and uncommon structural features or structure reactivity relationships on the other Extensive cross referencing of useful information is provided making this volume accessible for people working in

rather different areas of organometallic chemistry The synthesis of molecules with extreme properties is a challenge for all those working in organometallic chemistry irrelevant of theoretical computational synthetic or application interests This book presents case studies at the interface of these overlapping interests Unusual Structures and Physical Properties in Organometallic Chemistry Provides test cases for computational and theoretical models Presents a challenge for synthetic chemists Provides ideal show cases for analytical techniques This volume will be an invaluable reference for researchers in organometallic chemistry computational and theoretical chemistry NMR and other spectroscopic methods

MRS of the Brain and Neurological Disorders Akihiro Igata, Tetsuhiko Asakura, Toshiro Fujimoto, 2000-06-28 MRS of the Brain and Neurological Disorders illustrates and demonstrates the usefulness of magnetic resonance spectroscopy for the diagnosis of brain and neurological disorders including epilepsy nervous disorders psychiatric disorders and brain tumors The book is unique in that it contains 87 case studies of neurologic and psychiatric diso Journal of the American Chemical Society American Chemical Society, 1984-05 Features definitive articles and communications as well as book and software reviews covering all areas of chemistry Subject Guide to Books in Print, 1984

Theory of Magnetic Resonance Charles P. Poole, Jr., Horacio A. Farach, 1987-01-16 Mathematical and quantum mechanical background General two spin 1 2 1 2 system NMR two spin 1 2 1 2 system ESR two spin 1 2 1 2 system Anisotropic hamiltonians Multispin systems High spin systems Mossbauer resonance Atomic spectra and crystal field theory Lineshapes Double resonance Electron nuclear double resonance Electron electron double resonance Dynamic polarization Nuclear nuclear double resonance Acoustic muon and optical magnetic resonance Spin labels Fourier transform nuclear magnetic resonance Physical constants and energy conversion factors

Cadmium: From Toxicity to Essentiality Astrid Sigel, Helmut Sigel, Roland KO Sigel, 2013-02-26 Volume 11 provides in an authoritative and timely manner in 16 stimulating chapters written by 40 internationally recognized experts from 11 nations and supported by more than 2600 references 35 tables and over 100 illustrations many in color a most up to date view on the role of cadmium for life presently a vibrant research area MILS 11 covers the bioinorganic chemistry of Cd II its biogeochemistry anthropogenic release into the environment and speciation in the atmosphere waters soils and sediments The analytical tools for Cd determination its imaging in cells and the use of ^{113}Cd NMR to probe Zn II and Ca II proteins are summarized as are Cd II interactions with nucleotides nucleic acids amino acids and proteins including metallothioneins The phytoremediation by Cd II accumulating plants etc the toxicology of Cd II its damage to mammalian organs and its role as a carcinogen for humans are highlighted

Physical Methods of Chemistry, Determination of Thermodynamic Properties Bryant W. Rossiter, Roger C. Baetzold, 1992 Each volume of this series heralds profound changes in both the perception and practice of chemistry This edition presents the state of the art of all important methods of instrumental chemical analysis measurement and control Contributions offer introductions together with sufficient detail to give a clear understanding of basic theory and apparatus involved and an appreciation of the value

potential and limitations of the respective techniques The emphasis of the subjects treated is on method rather than results thus aiding the investigator in applying the techniques successfully in the laboratory *Physics Briefs* ,1990 Nuclear Magnetic Resonance ,1985 NMR of Newly Accessible Nuclei: Chemical and biochemical applications. pt. 1. General features. Multinuclear instrumentation and observation Pierre Laszlo,1983

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