

NMR 15

Editors: P. Diehl E. Fluck R. Kosfeld

Dynamic NMR Spectroscopy

Alois Steigel

Mechanistic Studies of Rearrangements
and Exchange Reactions by Dynamic
NMR Spectroscopy

Hans Wolfgang Spiess

Rotation of Molecules and Nuclear
Spin Relaxation

Second Printing



Springer-Verlag
Berlin Heidelberg New York

Dynamic Nmr Spectroscopy Nmr Basic Principles And Progress

John Henry Nelson



Dynamic Nmr Spectroscopy Nmr Basic Principles And Progress:

Dynamic NMR Spectroscopy, 1978 **Dynamic NMR Spectroscopy**, 2012-12-06 Since the first successful NMR experiments in 1946 it was well appreciated that dynamic processes play an important role in the NMR spectroscopy of bulk matter 1 Early theories on the dependence of the relaxation parameters T₁ and T₂ on the motions of nuclear spins were successful in explaining the dipolar broadening of the NMR signal in solids and the motional narrowing in liquids 2 With the discovery of chemical shifts and spin spin couplings another type of dynamical process affecting the NMR line shape became apparent the chemical exchange As a consequence dynamical NMR studies split into two groups differing not only in the dynamical topics but also in the method of investigation physical studies of the motion of spins in liquids and solids by measurement of the relaxation times of single resonances and on the other hand chemical studies based on band shape analysis of NMR spectra recorded under steady state conditions The two fields of research lost some of their basic differences with the development of the Fourier transform NMR method 3 which allows the measurement of relaxation times of different resonances at the same time i.e. the study of differential motional behavior of different parts of molecules thus providing a new tool in conformational analyses For example information can be obtained by this method on the relative importance of overall motions and internal motions 4 *NMR at Very High Field* J.B. Robert, 1991-01-14 In recent years several improvements have been made in the manufacturing of resistive superconducting and hybrid magnets Condensed matter physicists are nowadays doing experiments in steady magnetic fields of up to 30 Tesla But the field homogeneity B required in a volume of the order of a few cm is usually several orders of magnitude less severe than the one which is needed for high resolution NMR Over the last 30 years with each generation of new high resolution NMR spectrometers from 100 MHz up to 600 MHz taking advantage of the increase in sensitivity and resolution new areas of research have been opened in chemistry physical chemistry and biochemistry The generation of the 20 Tesla superconducting magnets is coming Thus one may seriously start to consider high resolution NMR at 1 GHz The purpose of this volume is to examine some of the advantages which can be obtained at such high frequencies and some of the problems we shall be facing An important aspect of NMR at high field which is not presented in this volume concerns the design of the magnet The building of a superconducting magnet producing a field 10³ higher than 20 T with a field homogeneity $\Delta B/B \leq 10^{-6}$ in a cm volume still remains today in 1990 a major challenge Grenoble France J B Robert Guest Editor Professor J B Robert Service National des Champs Intenses B P **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 **Humic Substances** Robert L. Wershaw, Michael A. Mikita, 2020-11-25 This book is an introduction and guide to the use of nuclear magnetic resonance NMR spectroscopy for the study of humic materials and coals It provides a general discussion of the application of liquid state and solid state NMR techniques **Dynamics of Solutions and Fluid Mixtures by NMR** Jean-Jacques Delpuech, 1995-06-08 Indhold This study analyzes the molecular data obtained as the result of the time dependence of NMR spectra The logical sequence of material should enable those unfamiliar with aspects of molecular dynamics to understand the specialized topics and applications discussed in later chapters **Bulletin of Magnetic Resonance**, 1994

Spectroscopic Properties of Inorganic and Organometallic Compounds 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 Spectroscopy John Henry Nelson, 2003 This is the only how to volume that investigates the spectroscopy of a variety of nuclides other than H and C in depth It contains extensive reference material and numerous problems most of which include real spectra It is written to provide users with the knowledge necessary to choose the most appropriate experiment to obtain the best quality spectra with the ability to fully interpret the data The book covers basic theory of NMR spectroscopy spectrum measurement the chemical shift and examples for selected nuclei symmetry and NMR spectroscopy spin spin coupling and NMR spin systems typical magnitude of selected coupling constants nuclear spin relaxation the nuclear overhauser effect editing C NMR spectra two dimensional NMR spectroscopy dynamic NMR spectroscopy lanthanide shift reagents LSR NMR of solids For NMR spectroscopists and analytical chemists Nuclear Magnetic Resonance R K Harris, 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

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