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# 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, 2012-12-06 Since the first successful NMR Dynamic NMR Spectroscopy ,1978 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 Tl 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 affect ing 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 mole cules 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 ,1969 **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 Humic Substances Robert L. Wershaw, Michael A. Mikita, 2020-11-25 This book is an introduction and spectroscopists quide 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** Spectroscopic Properties of Inorganic and Organometallic Compounds E A V Magnetic Resonance ,1994 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

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