

Geir Humborstad Sørland

# Dynamic Pulsed-Field- Gradient NMR

# Dynamic Pulsed Field Gradient Nmr Springer Series In Chemical Physics

**David M. Grant, Robin K. Harris**



## **Dynamic Pulsed Field Gradient Nmr Springer Series In Chemical Physics:**

Dynamic Pulsed-Field-Gradient NMR Geir Humboerstad Sørland, 2014-09-20 Dealing with the basics theory and applications of dynamic pulsed field gradient NMR NMR PFG NMR this book describes the essential theory behind diffusion in heterogeneous media that can be combined with NMR measurements to extract important information of the system being investigated This information could be the surface to volume ratio droplet size distribution in emulsions brine profiles fat content in food stuff permeability connectivity in porous materials and medical applications currently being developed Besides theory and applications it will provide the readers with background knowledge on the experimental set ups and most important deal with the pitfalls that are numerous present in work with PFG NMR How to analyze the NMR data and some important basic knowledge on the hardware will be explained too

**Dynamic Pulsed-Field-Gradient NMR** Geir Humboerstad Sorland, 2014-10-31 **Ionic Liquids** Jun-ichi Kadokawa, 2013-01-23 Concerns with ionic liquids are one of the most interesting and rapidly developing areas in modern physical chemistry materials science technologies and engineering Increasing attention has also been paid to the use of ionic liquids in the research fields of biological aspects and natural resources This book provides the forum for dissemination and exchange of up to date scientific information on theoretical generic and applied areas of ionic liquids It therefore tends to review recent progresses in ionic liquid research on fundamental properties solvents and catalysts in organic reactions biological applications providing energies and fuels biomass conversions functional materials and other applications I trust that this book will provide an active source of information for research in ionic liquid science and engineering

*Biomembrane Simulations* Max L. Berkowitz, 2019-04-30 Due to recent advancements in the development of numerical algorithms and computational hardware computer simulations of biological membranes often requiring use of substantial computational resources are now reaching a mature stage Since molecular processes in membranes occur on a multitude of spatial and time scales molecular simulations of membranes can also serve as a testing ground for use of multi scale simulation techniques This book addresses some of the important issues related to understanding properties and behavior of model biological membranes and it Shows how simulations improve our understanding of biological membranes and makes connections with experimental results Presents a careful discussion of the force fields used in the membrane simulations including detailed all atom fields and coarse grained fields Presents a continuum description of membranes Discusses a variety of issues such as influence of membrane surfaces on properties of water interaction between membranes across water nanoparticle permeation across the membrane action of anesthetics and creation of inhomogeneous regions in membranes Discusses important methodological issues when using simulations to examine phenomena such as pore creation and permeation across membranes Discusses progress recently achieved in modeling bacterial membranes It will be a valuable resource for graduate students researchers and instructors in biochemistry biophysics pharmacology physiology and computational biology

**Annual Reports on NMR Spectroscopy**

Graham A. Webb,2007-05-09 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 grown to such importance as NMR spectroscopy It is used in all branches of science where precise structural determination is required and where 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 nonspecialist alike to become familiar with new techniques and applications of NMR spectroscopy Provides updates on the latest developments in NMR spectroscopy Includes comprehensive review articles Highlights the increasing importance of NMR spectroscopy as a technique for structural determination [Encyclopedia of Chemical Physics and Physical Chemistry](#) John H. Moore,Nicholas D. Spencer,2023-07-03 The Encyclopedia of Physical Chemistry and Chemical Physics introduces possibly unfamiliar areas explains important experimental and computational techniques and describes modern endeavors The encyclopedia quickly provides the basics defines the scope of each subdiscipline and indicates where to go for a more complete and detailed explanation Particular attention has been paid to symbols and abbreviations to make this a user friendly encyclopedia Care has been taken to ensure that the reading level is suitable for the trained chemist or physicist The encyclopedia is divided in three major sections FUNDAMENTALS the mechanics of atoms and molecules and their interactions the macroscopic and statistical description of systems at equilibrium and the basic ways of treating reacting systems The contributions in this section assume a somewhat less sophisticated audience than the two subsequent sections At least a portion of each article inevitably covers material that might also be found in a modern undergraduate physical chemistry text METHODS the instrumentation and fundamental theory employed in the major spectroscopic techniques the experimental means for characterizing materials the instrumentation and basic theory employed in the study of chemical kinetics and the computational techniques used to predict the static and dynamic properties of materials APPLICATIONS specific topics of current interest and intensive research For the practicing physicist or chemist this encyclopedia is the place to start when confronted with a new problem or when the techniques of an unfamiliar area might be exploited For a graduate student in chemistry or physics the encyclopedia gives a synopsis of the basics and an overview of the range of activities in which physical principles are applied to chemical problems It will lead any of these groups to the salient points of a new field as rapidly as possible and gives pointers as to where to read about the topic in more detail **The Journal of Chemical Physics** ,1997 [Encyclopedia of Nuclear Magnetic Resonance, Volume 9](#) David M. Grant,Robin K. Harris,1996 The content of this volume has been added to the online reference work Encyclopedia of Magnetic Resonance For further information see Encyclopedia of Magnetic Resonance As a stand alone volume Advances in NMR comprehensively highlights the rapid progress of nuclear magnetic resonance over the last five years Features 66 articles on the latest major advances in NMR Written by over 80 internationally recognised experts With over 900 pages illustrated extensively throughout and an easy to read large double

columned format *Advances in NMR* covers indepth articles on the latest advances in spectroscopic techniques nuclear interactions biochemical physical and chemical applications Including these outstanding articles Double Quantum NMR Spectroscopy of Dipolar Coupled Spins Under Fast Magic Angle Spinning H W Spiess Pulse Sequence Design using Rotor and Spin Symmetry M Levitt Indirect Nuclear Spin Spin Coupling Tensors R E Wasylshen Weakly Aligned Biomolecules in Liquid Crystals A Bax Multiple Resonance Multi dimensional Solid state NMR of Proteins S J Opella Dynamics of Hydrogen Transfer in Liquids and Solids H Limbach Optically Pumped NMR of Semiconductors and Two dimensional Electron Systems R Tycko S E Barrett The list of contributors looks like a Who s Who of the subject The Times Higher Education Supplement

**Food Emulsions** David Julian McClements, 2015-08-21 Continuing the mission of the first two editions *Food Emulsions Principles Practices and Techniques Third Edition* covers the fundamentals of emulsion science and demonstrates how this knowledge can be applied to control the appearance stability and texture of emulsion based foods Initially developed to fill the need for a single resource co

**Acta Chimica Hungarica** ,1985      **Physics Briefs** ,1993      **Springer Series in Chemical Physics** ,1986      High Pressure NMR Jiri Jonas, 2012-12-06 In recent years there has been a major expansion of high pressure research providing unique information about systems of interest to a wide range of scientific disciplines Since nuclear magnetic resonance has been applied to a wide spec trum of problems in chemistry physics and biochemistry it is not surprising to find that high pressure NMR techniques have also had many applications in these fields of science Clearly the high information content of NMR experiments combined with high pressure provides a powerful tool in modern chem istry It is the aim of this monograph in the series on NMR Basic Principles and Progress to illustrate the wide range of prob lems which can be successfully studied by high pressure NMR Indeed the various contributions in this volume discuss studies of interest to physics chemical physics biochemistry and chemical reaction kinetics In many different ways this monograph demonstrates the power of modern experimental and theoretical techniques to investigate very complex systems The first contribution by D Brinkman deals with NMR and NQR studies of superionic conductors and high Tc supercon ductors at high pressure Pressure effects on phase transitions detection of new phases and pressure effects on diffusion and spin lattice relaxation represent a few of the topics discussed in this contribution of particular interest to solid state physics

*Dynamic NMR Spectroscopy* ,1978      **Analysis of NMR Spectra** R. A. Hoffman, S. Forsen, B. Gestblom, 2011-12-30 Nuclear magnetic resonance spectroscopy which has evolved only within the last 20 years has become one of the very important tools in chemistry and physics The literature on its theory and application has grown immensely and a comprehensive and adequate treatment of all branches by one author or even by several becomes increasingly difficult This series is planned to present articles written by experts working in various fields of nuclear magnetic resonance spectroscopy and will contain review articles as well as progress reports and original work Its main aim however is to fill a gap existing in literature by publishing articles written by specialists which take the reader from the introductory stage to the latest development in the field The

editors are grateful to the authors for the time and effort spent in writing the articles and for their invaluable cooperation

The Editors Analysis of NMR Spectra A Guide for Chemists R A HOFFMAN t S FORSEN Division of Physical Chemistry  
 Chemical Center Lund Institute of Technology Lund Sweden B GESTBLOM Institute of Physics University of Uppsala Sweden

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 Intensities *Dynamic Studies Through Control of Relaxation in NMR Spectroscopy* Nicola Salvi, 2014-05-08 Nicola Salvi s  
 thesis offers a remarkably cogent view of highly sophisticated NMR methods Salvi developed these methods in order to  
 characterize the amplitudes and frequency ranges of local motions in biomolecules such as proteins These local motions play  
 an essential role since they can explain many of the remarkable properties of proteins and enable them to carry out all sorts  
 of vital functions from enzymatic catalysis to intermolecular recognition and signalling in cells Salvi s work has led to  
 numerous publications in high impact journals **Handbook of High Field Dynamic Nuclear Polarization** Vladimir K.  
 Michaelis, Robert G. Griffin, Björn Corzilius, Shimon Vega, 2020-01-03 Addresses Dynamic Nuclear Polarization DNP as a  
 technique for sensitivity enhancement in solid state NMR spectroscopy This comprehensive handbook is a compendium of the  
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*Diffusion and Electrophoretic NMR* Peter Stilbs, 2019-08-19 Diffusion and Electrophoretic NMR experiments resolve chemical compounds based on their molecular motion This publication introduces the basics of these methods and explains how they can be used to measure the size of molecules and aggregates to determine degree of polymerization and to solve other chemical problems Supplied with many case studies the book is a must have for students and researchers who work with practical NMR measurements

*The NMR Probe of High-Tc Materials* Russell E. Walstedt, 2008-07-30 The NMR probe has yielded a panorama of data on the static and dynamic magnetic properties of high Tc materials This volume aims to provide a comprehensive exposition of the various facets of the technique itself and to apply those results to the task of creating straightforward physical meaning for the elements of the available data While some aspects of the underlying theory remain mysterious this book renders nearly every available measurement understandable

Pulsed Field Gradient Spin-Echo NMR Studies of Asphaltenes Jenny-Ann Östlund, 2002

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