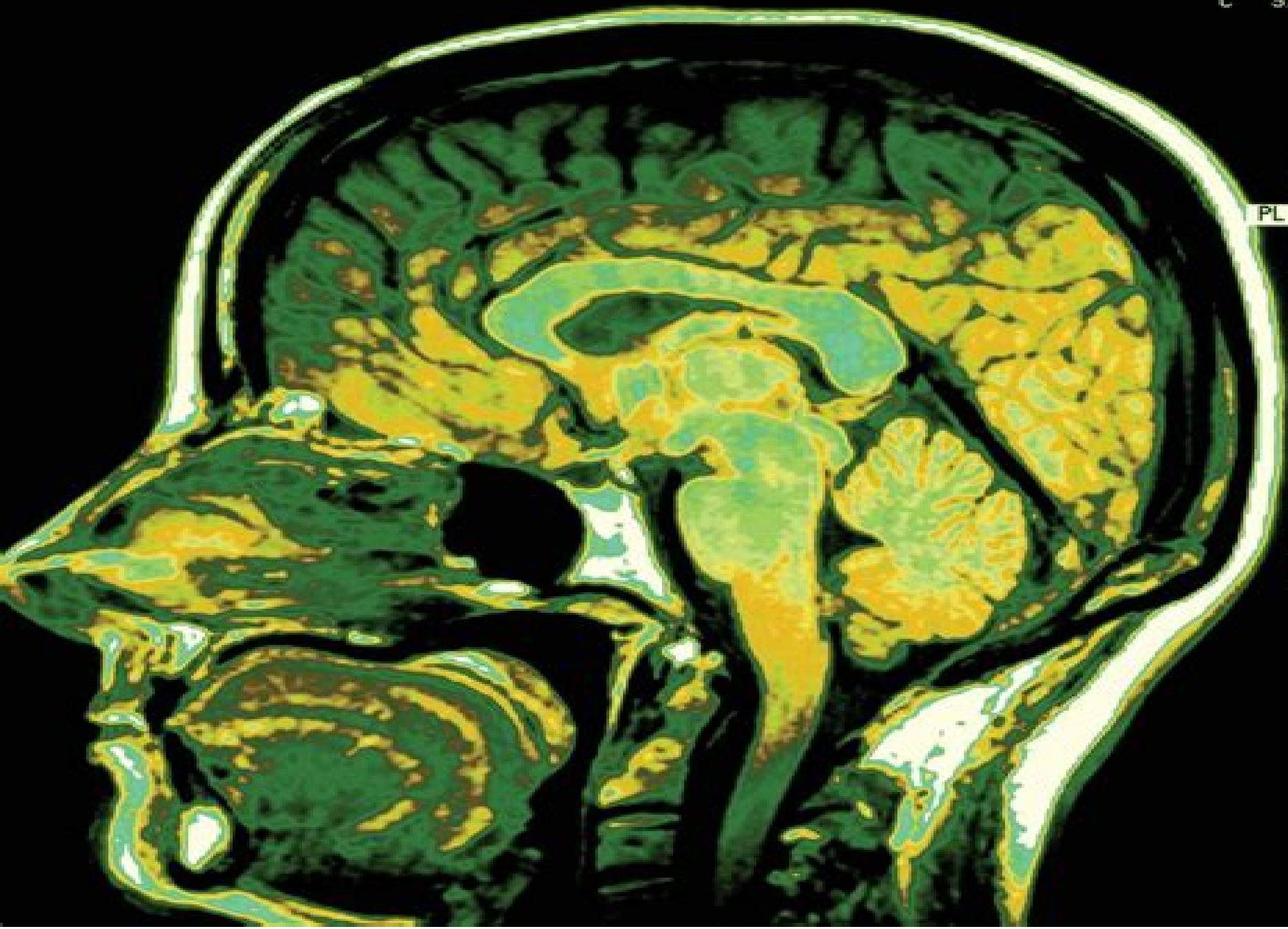


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# Nuclear Magnetic Resonance In Solids

**Kenneth J.D. MacKenzie, M.E. Smith**



## **Nuclear Magnetic Resonance In Solids:**

**Nuclear Magnetic Resonance in Solids** Lieven Gerven, 1977-04-01 *Nuclear Magnetic Resonance in Solids* Lieven Gerven, 2013-03-09 High Resolution NMR in Solids Selective Averaging Ulrich Haeberlen, 2012-12-02 High Resolution NMR in Solids Selective Averaging presents the principles and applications of the four approaches to high resolution NMR in solids magic angle sample spinning multiple pulse proton enhanced nuclear induction and indirect detection methods Divided into six chapters this book initially describes the tensorial properties of nuclear spin interactions in both ordinary and spin spaces It then deals with the manifestations of nuclear magnetic shielding in NMR spectra of both single crystal and powder samples and then discusses the techniques for analyzing spectra and rotation patterns in terms of shielding tensors A wide range of NMR phenomena that are result of intentional or natural selective or unselective averaging processes and the average Hamiltonian theory that yields the inclusion of correction are covered This book also provides a detailed discussion on multiple pulse sequences intended for high resolution NMR in solids The concluding chapter examines the applications of multiple pulse techniques with particular emphasis on measurements of  $^{19}\text{F}$  and  $^1\text{H}$  shielding tensors Discussions on rotations of angular momentum operators time ordering and the Magnus expansion off resonance averaging of the second order dipolar Hamiltonian and phase transients are covered in the supplemental texts Nuclear Magnetic Resonance in Solid Polymers Vincent J. McBrierty, K. J. Packer, 1993 This book is an authoritative and comprehensive account of the principles and practice of NMR spectroscopy of solids as applied to polymeric materials to determine their structure and dynamics at a molecular level NMR spectroscopy has been applied to the characterization of polymers in solid state for over 40 years The past few decades have seen the development of many new NMR capabilities including high resolution techniques for solids multi dimensional methods deuterium NMR and others All of these developments have contributed to a dramatic increase in the power and applicability of NMR for the characterization at a molecular level of the dynamics and structural organization of polymeric solids The applications chapters emphasize the polymer types and properties The authors have included an introduction to all the main principles of the technique involved in its application to solid polymers Rigorous and detailed analytical treatment of all main areas is also available Principles of High Resolution NMR in Solids M. Mehring, 2012-12-06 The field of Nuclear Magnetic Resonance NMR has developed at a fascinating pace during the last decade It always has been an extremely valuable tool to the organic chemist by supplying molecular finger print spectra at the atomic level Unfortunately the high resolution achievable in liquid solutions could not be obtained in solids and physicists and physical chemists had to live with unresolved lines open to a wealth of curve fitting procedures and a vast amount of speculations High resolution NMR in solids seemed to be a paradoxon Broad structure less lines are usually encountered when dealing with NMR in solids Only with the recent advent of multiple pulse magic angle cross polarization two dimensional and multiple quantum spectroscopy and other techniques during the last decade it became possible to resolve finer

details of nuclear spin interactions in solids I have felt that graduate students researchers and others beginning to get involved with these techniques needed a book which treats the principles theoretical foundations and applications of these rather sophisticated experimental techniques Therefore I wrote a monograph on the subject in 1976 Very soon new ideas led to the development of two dimensional spectroscopy and multiple quantum spectroscopy topics which were not covered in the first edition of my book Moreover an exponential growth of literature appeared in this area of research leaving the beginner in an awkward situation of tracing back from a current article to the roots of the experiment

**Spin Temperature and Nuclear Magnetic Resonance in Solids** Maurice Goldman,1970 *High-resolution Nuclear Magnetic Resonance in Solids* E. R. Andrew,NOTTINGHAM UNIV (Great Britain),1965 The nuclear magnetic resonance spectra of solids whose spectral lines are narrowed by the technique of high speed rotation were investigated By rotation about an axis inclined at the angle of 54 degrees 44 min to the direction of the applied field the dipolar broadening of the lines was effectively removed enabling the fine structure characteristic of n m r spectra of fluids to be revealed An investigation was undertaken of the many parameters entering into the design of the rotor stator system The peripheral velocity of the rotor was close to the velocity of sound in air The best design parameters were carried forward to smaller systems using 3 4 in diameter rotors Rotors of this diameter ran at speeds up to about 5 5 kc s when propelled by air Further increases in rotation rate were achieved by propelling the rotors with He gas The limitations on rotation rate became the strength of the rotor Nylon rotors of 3 4 in diameter disintegrated at rates of about 9 kc s A study was made of the dependence of linewidth on rotation rate for the P 31 resonance in solid Pcl 5 and work was done on solid P255 A new resonant broadening effect was demonstrated in solid Pcl5 Author

**Nuclear Magnetic Resonance Spectroscopy** Frank A. Bovey,Peter A. Mirau,H. S. Gutowsky,1988-11-01 Nuclear Magnetic Resonance Spectroscopy Second Edition focuses on two dimensional nuclear magnetic resonance NMR spectroscopy high resolution NMR of solids water suppression multiple quantum spectroscopy and NMR imaging The selection first takes a look at the fundamental principles and experimental methods Discussions focus on the NMR phenomenon dipolar broadening and spin spin relaxation nuclear electric quadrupole relaxation saturation magnetic shielding and chemical shift magnetic field transitions between the nuclear energy levels and resolution and sensitivity considerations The manuscript then ponders on chemical shift coupling of nuclear spins and nuclear relaxation and chemical rate processes Topics include spin lattice relaxation spin spin relaxation spin decoupling and associated techniques and description and analysis of spin systems The text examines two dimensional NMR spectroscopy macromolecules and NMR of solids including magic angle spinning cross polarization proton dipolar broadening biopolymers and chain motion in macromolecules The selection is a valuable source of data for readers interested in nuclear magnetic resonance spectroscopy

*Multinuclear Solid-State Nuclear Magnetic Resonance of Inorganic Materials* Kenneth J.D. MacKenzie,M.E. Smith,2002-04-26 Techniques of solid state nuclear magnetic resonance NMR spectroscopy are constantly

being extended to a more diverse range of materials pressing into service an ever expanding range of nuclides including some previously considered too intractable to provide usable results At the same time new developments in both hardware and software are being introduced and refined This book covers the most important of these new developments With sections addressed to non specialist researchers providing accessible answers to the most common questions about the theory and practice of NMR asked by novices as well as a more specialised and up to date treatment of the most important areas of inorganic materials research to which NMR has application this book should be useful to NMR users whatever their level of expertise and whatever inorganic materials they wish to study **Pulsed Nuclear Magnetic Resonance in Solids**, 1978

**Nuclear Magnetic Resonance in Solids: Lectures** Lieven van Gerven, 1977 **Modern Methods in Solid-state NMR** Paul Hodgkinson, 2018-04-09 Solid state NMR covers an enormous range of material types and experimental techniques Although the basic instrumentation and techniques of solids NMR are readily accessible there can be significant barriers even for existing experts to exploring the bewildering array of more sophisticated techniques In this unique volume a range of experts in different areas of modern solid state NMR explain about their area of expertise emphasising the practical aspects of implementing different techniques and illustrating what questions can and cannot be addressed Later chapters address complex materials showing how different NMR techniques discussed in earlier chapters can be brought together to characterise important materials types The volume as a whole focusses on topics relevant to the developing field of NMR crystallography the use of solids NMR as a complement to diffraction crystallography This book is an ideal complement to existing introductory texts and reviews on solid state NMR New researchers wanting to understand new areas of solid state NMR will find each chapter to be the equivalent to spending time in the laboratory of an internationally leading expert learning the hints and tips that make the difference between knowing about a technique and being ready to put it into action With no equivalent on the market it will be of interest to every solid state NMR researcher academic and postgraduate working in the chemical sciences *High resolution nuclear magnetic resonance of solids* Egbert M. Menger, 1982 [Carbon Thirteen Nuclear Magnetic Resonance in Solids](#) Zhehong Gan, 1990 [Solid-State NMR IV Methods and Applications of Solid-State NMR](#) B. Blümich, 2012-12-06 Solid State NMR is a branch of Nuclear Magnetic Resonance which is presently experiencing a phase of strongly increasing popularity The most striking evidence is the large number of contributions from Solid State Resonance at NMR meetings approaching that of liquid state resonance Important progress can be observed in the areas of methodological developments and applications to organic and inorganic matter One volume devoted to more or less one of each of these areas has been published in the preceding three issues This volume can be considered an addendum to this series Selected methods and applications of Solid State NMR are featured in three chapters The first one treats the recoupling of dipolar interactions in solids which are averaged by fast sample rotation Following an introduction to effective Hamiltonians and Floquet theory different types of experiment such as rotary

resonance dipolar chemical shift correlation spectroscopy rotational resonance and multipulse recoupling are treated in the powerful Floquet formalism In the second chapter the different approaches to line narrowing of quadrupolar nuclei are reviewed in a consistent formulation of double resonance DaR and dynamic angle spinning DAS Practical aspects of probe design are considered as well as advanced 2D experiments sensitivity enhancement techniques and spinning sideband manipulations The use of such techniques dramatically increases the number of nuclei which can be probed in high resolution NMR spectroscopy The final chapter describes new experimental approaches and results of structural studies of noncrystalline solids

**Nuclear Magnetic Resonance in Certain Solids**, 1960 *Solid-State NMR* David C.

Apperley, Robin K. Harris, Paul Hodgkinson, 2012-06-10 The power of nuclear magnetic resonance NMR for characterizing molecules dissolved in solution is widely acknowledged and NMR forms an essential component of undergraduate chemistry degrees However the application of NMR to the solid state is much less well appreciated This text sets out the fundamental principles of solid state NMR explaining how NMR in solids differs from that in solution showing how the various interactions of NMR can be manipulated to yield high resolution spectra and to give information on local structure and dynamics in solids This book aims to take some of the mystique out of solid state NMR by providing a comprehensible discussion of the methodology including the basic concepts and a practical guide to implementation of the experiments A basic knowledge of solution state NMR is assumed and is only briefly covered The text is intended for those in academia and industry expecting to use solid state NMR in their research and looking for an accessible introduction to the field It will also be valuable for non experts interested in learning how NMR can be usefully applied to solid systems Detailed mathematical treatments are delayed to a chapter at the mid point of the text and can be skipped Introductions to experiments and numerical simulations are provided to help link NMR results to experimental practice The different aspects of solid state NMR from basic pulse and acquire experiments to sophisticated techniques for the measurement of anisotropy information are presented Examples illustrate the wide variety of applications of the technique and its complementarity to other solid state characterization techniques such as X ray diffraction Various aspects of NMR crystallography are covered as are topics of motion in solids

NMR Spectroscopy of Biological Solids A. Ramamoorthy, 2005-09-22 Over the past decade a myriad of techniques have shown that solid state nuclear magnetic resonance NMR can be used in a broad spectrum of applications with exceptionally impressive results Solid state NMR results can yield high resolution details on the structure and function of many important biological solids including viruses fibril formin

**Nuclear Magnetic Resonance Spectroscopy in Solids** Royal Society of London, 1981

**Nuclear Magnetic Resonance and Relaxation in Solids**, 1965

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## **Table of Contents Nuclear Magnetic Resonance In Solids**

1. Understanding the eBook Nuclear Magnetic Resonance In Solids
  - The Rise of Digital Reading Nuclear Magnetic Resonance In Solids
  - Advantages of eBooks Over Traditional Books
2. Identifying Nuclear Magnetic Resonance In Solids
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Nuclear Magnetic Resonance In Solids
  - User-Friendly Interface
4. Exploring eBook Recommendations from Nuclear Magnetic Resonance In Solids
  - Personalized Recommendations
  - Nuclear Magnetic Resonance In Solids User Reviews and Ratings
  - Nuclear Magnetic Resonance In Solids and Bestseller Lists
5. Accessing Nuclear Magnetic Resonance In Solids Free and Paid eBooks
  - Nuclear Magnetic Resonance In Solids Public Domain eBooks
  - Nuclear Magnetic Resonance In Solids eBook Subscription Services
  - Nuclear Magnetic Resonance In Solids Budget-Friendly Options
6. Navigating Nuclear Magnetic Resonance In Solids eBook Formats

- ePub, PDF, MOBI, and More
  - Nuclear Magnetic Resonance In Solids Compatibility with Devices
  - Nuclear Magnetic Resonance In Solids Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Nuclear Magnetic Resonance In Solids
    - Highlighting and Note-Taking Nuclear Magnetic Resonance In Solids
    - Interactive Elements Nuclear Magnetic Resonance In Solids
  8. Staying Engaged with Nuclear Magnetic Resonance In Solids
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Nuclear Magnetic Resonance In Solids
  9. Balancing eBooks and Physical Books Nuclear Magnetic Resonance In Solids
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Nuclear Magnetic Resonance In Solids
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Nuclear Magnetic Resonance In Solids
    - Setting Reading Goals Nuclear Magnetic Resonance In Solids
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Nuclear Magnetic Resonance In Solids
    - Fact-Checking eBook Content of Nuclear Magnetic Resonance In Solids
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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