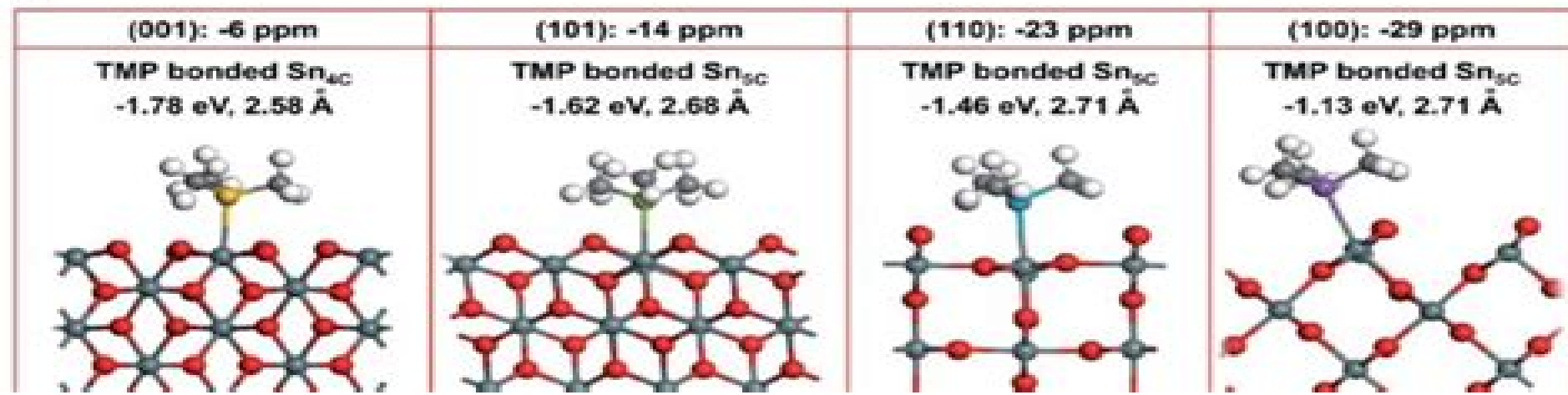


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Solid State Nmr Spectroscopy

**Norbert Müller, Perunthiruthy K.
Madhu**



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Modern Methods in Solid-state NMR Paul Hodgkinson, 2018-04-05 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

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

Solid-State NMR in Materials Science Vladimir I. Bakhmutov, 2016-04-19 Solid state NMR is a powerful physical method widely applied in

modern fundamental and applied science medicine and industry Its role is particularly valuable in materials chemistry due to the capability of solid state NMR to rapidly solve tasks connected with structural descriptions of complex systems on macro and or molecular levels and the i

Solid State NMR Klaus Müller, Marco Geppi, 2021-06-23 Solid State NMR A thorough and comprehensive textbook covering the theoretical background experimental approaches and major applications of solid state NMR spectroscopy Nuclear Magnetic Resonance NMR spectroscopy is a powerful non destructive technique capable of providing information about the molecular structure and dynamics of molecules Alongside solution state NMR a well established technique to study chemical structures and investigate physico chemical properties of molecules in solutions solid state NMR SSNMR offers many exciting possibilities for the analysis of solid and soft materials across scientific fields SSNMR shows unique capabilities for a detailed investigation of structural and dynamic properties of materials over wide space and time ranges For this reason and thanks to significant advances in the past several years the application of SSNMR to materials is rapidly increasing in disciplines such as chemistry physics and materials and life sciences Solid State NMR Principles Methods and Applications offers a systematic introduction to the theory methodological concepts and major experimental methods of SSNMR spectroscopy Exploring the unique potential of SSNMR for the structural and dynamic characterization of soft and either amorphous or crystalline solid materials this comprehensive textbook provides foundational knowledge and recent developments of SSNMR covering physical and theoretical background experimental methods and applications to pharmaceuticals polymers inorganic and hybrid materials liquid crystals and model membranes Written by two expert authors to ensure a clear and consistent presentation of the subject this textbook Includes a brief introduction to the historical aspects and broad theoretical background of solid state NMR spectroscopy Provides helpful illustrations to explain the various SSNMR concepts and methods Features accessible descriptive text with self consistent use of quantum mechanics Covers the experimental aspects of SSNMR spectroscopy and in particular a description of many useful pulse sequences Contains references to relevant literature Solid State NMR Principles Methods and Applications is the ideal textbook for university courses on SSNMR advanced spectroscopies and a valuable single volume reference for spectroscopists chemists and researchers in the field of materials

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

Introduction to Solid-State NMR Spectroscopy Melinda J. Duer, 2005-07-29 Introduction to Solid State NMR Spectroscopy is written for undergraduate and graduate students of chemistry either taking a course in advanced or solid state nuclear magnetic resonance spectroscopy or undertaking research projects where solid state NMR is likely to be a major investigative technique It will also serve as a practical introduction in industry where the techniques can provide new or complementary information to supplement other investigative techniques By covering solid state NMR spectroscopy in a clear straightforward and approachable way with detailed descriptions of the major solid state NMR experiments focussing on what the experiments do and what they tell the researcher this book will serve as an ideal introduction to the subject These descriptions are backed up by separate mathematical explanations for those who wish to gain a more sophisticated quantitative understanding of the phenomena With additional coverage of the practical implementation of solid state NMR experiments integrated into the discussion this book will be essential reading for all those using or about to use solid state NMR spectroscopy Dr Melinda Duer is a senior lecturer in the Department of Chemistry at the University of Cambridge Cambridge UK

Solid State NMR Spectroscopy Melinda J. Duer, 2008-04-15 This book is for those familiar with solution state NMR who are encountering solid state NMR for the first time It presents the current understanding and applications of solid state NMR with a rigorous but readable approach making it easy for someone who merely wishes to gain an overall impression of the subject without details This dual requirement is met through careful construction of the material within each chapter The book is divided into two parts Fundamentals and Further Applications The section on Fundamentals contains relatively long chapters that deal with the basic theory and practice of solid state NMR The essential differences and extra scope of solid state NMR over solution state is dealt with in an introductory chapter The basic techniques that all chapters rely on are collected into a second chapter to avoid unnecessary repetition later Remaining chapters in the Fundamentals part deal with the major areas of solid state NMR which all solid state NMR spectroscopists should know about Each begins with an overview of the topic that puts the chapter in context The basic principles upon which the techniques in the chapter rely are explained in a separate section Each of these chapters exemplifies the principles and techniques with the applications most commonly found in current practice The Further Applications section contains a series of shorter chapters which describe the NMR techniques used in other more specific areas The basic principles upon which these techniques rely will be expounded only if not already in the Fundamentals part

Solid-State NMR IV Methods and Applications of Solid-State NMR, 2011-12-21 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

New Techniques in Solid-State NMR Jacek Klinowski, 2004-12-10 With contributions by numerous experts

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3 D Raftery Philadelphia PA B F Chmelka Santa Barbara CA Xenon NMR Spectroscopy

4 G Fleischer Leipzig FRG F Fujara Mainz FRG NMR as a Generalized Incoherent Scattering Experiment

5 P Bl mler B Bl mich Mainz FRG NMR Imaging of Solids

Solid-state NMR Spectroscopy of Inorganic Materials John J. Fitzgerald, American Chemical Society. Meeting, 1999 This book strikes a balance between state of the art solid state NMR techniques and the applications of these techniques to problems in materials science The applications focus on modern inorganic materials such as metal oxides catalysts zeolites glasses ceramics semiconductors ion conductors superconductors and composites The book features chapters on multiple quantum MAS NMR dynamic angle spinning NMR for quadrupolar nuclides and two dimensional NMR methods It includes an introductory chapter that provides an a thorough and integrated overview of the field complete with numerous references

Current Developments in Solid State NMR Spectroscopy Norbert Müller, Perunthiruthy K. Madhu, 2013-04-17 Why to apply solid state NMR By now we should have learned that NMR is mainly used for the study of molecules in solution while x ray diffraction is the method of choice for solids Based on this fact the two recent NMR Nobelprizes went indeed into the liquid phase my own one eleven years ago and particularly the most recent one to Kurt Wuthrich His prize is beyond any doubts very well justified His contribution towards the study of biomolecules in solution in their native or almost native environment is truly monumental We all will profit from it indirectly when one of our future diseases will be cured with better drugs based on the insightful knowledge gained through liquid state NMR Two fields of NMR are still left out of the Nobel Prize game magnetic resonance imaging MRI and solid state NMR The disrespect for MRI in Stockholm is particularly difficult to understand but this is not a subject to be discussed at

the present place Solid state NMR is the third of the three great fields of NMR powerful already today and very promising for the near future

Solid State NMR Spectroscopy Melinda J. Duer, 2008 This book is for those familiar with solution state NMR who are encountering solid state NMR for the first time It presents the current understanding and applications of solid state NMR with a rigorous but readable approach making it easy for someone wh

Solid-State NMR III Organic Matter Bernhard 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 three areas Methodological developments applications to inorganic matter and applications to organic matter These developments are intended to be captured in three volumes in this series each of them being devoted to more or less one of these areas The present volume on Solid State NMR III is devoted mainly to organic matter The recent developments of deuterium NMR and their applications are reviewed in the first chapter Crosspolarization MAS and dynamic angle spinning are being explored for enhancement of information and sensitivity In addition to the analysis of classical relaxation times and modern 2D spectra detailed dynamic information becomes accessible from investigations of the relaxation time anisotropies The second chapter examines cross polarization in static and rotating solids under conditions of spin diffusion and thermal motion The underlying dipole-dipole interaction is further exploited by the techniques described in the third chapter for studies of polymer-polymer miscibility Short range techniques are discriminated from long range techniques based on spin diffusion The use of these techniques is illustrated by a case study of PMMA/PVF blends The last chapter addresses novel methods and applications of two dimensional exchange NMR for investigations of relative molecular orientations polymer morphology molecular dynamics and macroscopic molecular order

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 fibrin formin

Biomolecular solid-state NMR: Methods and applications Amir Goldbourt, Loren B. Andreas, Józef Romuald Lewandowski, 2023-04-19 *Solid State NMR* Jerry C. C. Chan, 2011-10-12 Dipolar Recoupling by Niels Chr Nielsen Lasse A Strass and Anders B Nielsen *Solid State NMR Techniques for the Structural Determination of Amyloid Fibrils* by Jerry C C Chan *Solid State ¹⁹F NMR of Peptides in Native Membranes* by Katja Koch Sergii Afonin Marco Ieronimo Marina Berditsch and Anne S Ulrich *Probing Quadrupolar Nuclei by Solid State NMR Spectroscopy Recent Advances* by Christian Fernandez and Marek Pruski *Solid State NMR of Porous Materials Zeolites and Related Materials* by Hubert Koller and Mark Wei *Solid State NMR of Inorganic Semiconductors* by James P Yesinowski

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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 Experimental Approaches of NMR Spectroscopy The Nuclear Magnetic Resonance Society of Japan,2017-11-23 This book describes the advanced developments in methodology and applications of NMR spectroscopy to life science and materials science Experts who are leaders in the development of new methods and applications of life and material sciences have contributed an exciting range of topics that cover recent advances in structural determination of biological and material molecules dynamic aspects of biological and material molecules and development of novel NMR techniques including resolution and sensitivity enhancement First this book particularly emphasizes the experimental details for new researchers to use NMR spectroscopy and pick up the potentials of NMR spectroscopy Second the book is designed for those who are involved in either developing the technique or expanding the NMR application fields by applying them to specific samples Third the Nuclear Magnetic Resonance Society of Japan has organized this book not only for NMR members of Japan but also for readers worldwide who are interested in using NMR spectroscopy extensively **Solid State NMR Spectroscopy for Biopolymers** Hazime Saitô,Isao Ando,Akira Naito,2006-08-05 Biopolymers are polymeric materials of biological origin including globular membrane and fibrous proteins polypeptides nucleic acids polysaccharides lipids etc and their assembly although preference to respective subjects may be different among readers who are more interested in their biological significance or industrial and or medical applications Nevertheless characterizing or revealing their secondary structure and dynamics may be an equally very important and useful issue for both kinds of readers Special interest in revealing the 3D structure of globular proteins nucleic acids and peptides was aroused in relation to the currently active Structural Biology X ray crystallography and multidimensional solution NMR spectroscopy have proved to be the standard and indispensable means for this purpose There remain however several limitations to this end if one intends to expand its scope further This is because these approaches are not always straightforward to characterize fibrous or membrane proteins owing to extreme difficulty in crystallization in the former and insufficient spectral resolution due to sparing solubility or increased effective molecular mass in the presence of surrounding lipid bilayers in the latter

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