

NMR Basic Principles and Progress 31
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Solid-State NMR II

Inorganic Matter

Solid State Nmr Ii Inorganic Matter Nmr Basic Principles And Progress Vol 31

Robert R. Redfield



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Solid-State NMR II B. Blümich, 2013-03-09 1 G Engelhardt H Koller Stuttgart FRG 29Si NMR of Inorganic Solids 2 H Pfeifer Leipzig FRG NMR of Solid Surfaces 3 A Sebald Bayreuth FRG MAS and CP MAS NMR of Less Common Spin 1 2 Nuclei 4 C J Ger Mainz FRG Satellite Transition Spectroscopy of Quadrupolar Nuclei 5 D Brinkmann M Mali Zürich CH NMR NQR Studies of High Temperature Superconductors 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 Jerry C. C. Chan, 2011-10-26 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 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 **Solid-State NMR II** Bernhard Blümich, 1994 1 G Engelhardt H Koller Stuttgart FRG 29Si NMR of Inorganic Solids 2 H Pfeifer Leipzig FRG NMR of Solid Surfaces 3 A Sebald Bayreuth FRG MAS and CP MAS NMR of Less Common Spin 1 2 Nuclei 4 C J Ger Mainz FRG Satellite Transition Spectroscopy of Quadrupolar Nuclei 5 D Brinkmann M Mali Zürich CH NMR NQR Studies of High Temperature Superconductors **Nuclear Magnetic Resonance** G A Webb, 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 Each volume of Nuclear Magnetic Resonance comprises a combination of annual and biennial reports which together provide comprehensive coverage of the literature on this topic This Specialist Periodical Report reflects the growing volume of published work involving NMR techniques and applications in particular NMR of natural macromolecules which is covered in two reports NMR of Proteins and Acids and NMR of Carbohydrates Lipids and Membranes For those wanting to become rapidly acquainted with specific areas of NMR this title provides unrivalled scope of coverage Seasoned practitioners of NMR will find this an invaluable source of current methods and applications Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research Compiled by teams of leading authorities in the relevant subject areas the series creates a unique service for the active research chemist with regular in depth accounts of progress in particular fields of chemistry Subject coverage within different volumes of a given title is similar and publication is on an annual or biennial basis

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 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 *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 [Characterization of Solid Materials and Heterogeneous Catalysts, 2 Volume Set](#) Michel Che, Jacques C. Vedrine, 2012-05-14 This two volume book provides an overview of physical techniques used to characterize the structure of solid materials on the one hand and to investigate the reactivity of their surface on the other Therefore this book is a must have for anyone working in fields related to surface reactivity Among the latter and because of its most important industrial impact catalysis has been used as the directing thread of the book After the preface and a general introduction to physical techniques by M Che and J C Vedrine two overviews on physical techniques are presented by G Ertl and Sir J M Thomas for investigating model catalysts and porous catalysts respectively The book is organized into four parts Molecular Local Spectroscopies Macroscopic Techniques Characterization of the Fluid Phase Gas and or Liquid and Advanced Characterization Each chapter focuses upon the following important themes overview of the technique most important parameters to interpret the experimental data practical details applications of the technique particularly during chemical processes with its advantages and disadvantages conclusions **New Techniques in Solid-State NMR** Jacek Klinowski, 2004-12-10 With contributions by numerous experts **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

Handbook of Porous Solids Ferdi Schüth, K. S. W. Sing, Jens Weitkamp, 2002

NMR of Quadrupolar Nuclei in Solid Materials Roderick E. Wasylshen, Sharon E. Ashbrook, Stephen Wimperis, 2012-12-19

NMR OF QUADRUPOLEAR NUCLEI IN SOLID MATERIALS Over the past 20 years technical developments in superconducting magnet technology and instrumentation have increased the potential of NMR spectroscopy so that it is now possible to study a wide range of solid materials In addition one can probe the nuclear environments of many other additional atoms that possess the property of spin In particular it is possible to carry out NMR experiments on isotopes that have nuclear spin greater than $1/2$ i.e. quadrupolar nuclei Since more than two thirds of all NMR active isotopes are quadrupolar nuclei applications of NMR spectroscopy with quadrupolar nuclei are increasing rapidly The purpose of this handbook is to provide under a single cover the fundamental principles techniques and applications of quadrupolar NMR as it pertains to solid materials Each chapter has been prepared by an expert who has made significant contributions to our understanding and appreciation of the importance of NMR studies of quadrupolar nuclei in solids The text is divided into three sections The first provides the reader with the background necessary to appreciate the challenges in acquiring and interpreting NMR spectra of quadrupolar nuclei in solids The second presents cutting edge techniques and methodology for employing these techniques to investigate quadrupolar nuclei in solids The final section explores applications of solid state NMR studies of solids ranging from investigations of dynamics characterizations of biological samples organic and inorganic materials porous materials glasses catalysts semiconductors and high temperature superconductors

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Solid-State NMR IV Methods and Applications of Solid-State NMR Bernhard Blümich, 1994-11-04 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

Concise Encyclopedia of Magnetic and Superconducting Materials K.H.J. Buschow, 2005-12-28 Magnetic and superconducting materials pervade every avenue of the technological world from microelectronics and mass data storage to medicine and heavy engineering Both areas have experienced a recent revitalisation of interest due to the discovery of new materials and the re evaluation of a wide range of basic mechanisms and phenomena This Concise Encyclopedia draws its material from the award winning Encyclopedia of Materials and Engineering and includes updates and revisions not available in the original set making it the ideal reference companion for materials scientists and engineers with an interest in magnetic and superconducting materials Contains in excess of 130 articles taken from the award winning Encyclopedia of Materials Science and Technology including ScienceDirect updates not available in the original set Each article discusses one aspect of magnetic and superconducting materials and includes photographs line drawings and tables to aid the understanding of the topic at hand Cross referencing guides readers to articles covering subjects of related interest

Solid-State NMR II, 2012-11-30 **Solid State NMR** Bernhard Blümich, 1994 **Modern Magnetic Resonance** Graham A. Webb, 2007-05-26 Modern Magnetic Resonance provides a unique and comprehensive resource on up to date uses and applications of magnetic resonance techniques in the sciences including chemistry biology materials food medicine pharmaceuticals and marine sciences The widespread appeal of MMR methods for revealing information at the molecular and microscopic levels is noted and examples are provided from the chemical and other

sciences Until now there has been no single publication that covers all the areas encompassed by Modern Magnetic Resonance by bringing together the various techniques and their applications in many scientific areas the internationally renowned Editors have created a resource of broad appeal to the scientific community The book includes High resolution solid and liquid state NMR Low resolution NMR Solution State NMR Magnetic Resonance Imaging Electron Spin Resonance Many applications taken from all of the chemical and related sciences *Solid State NMR* ,1994 Subject Guide to Books in Print ,1996

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