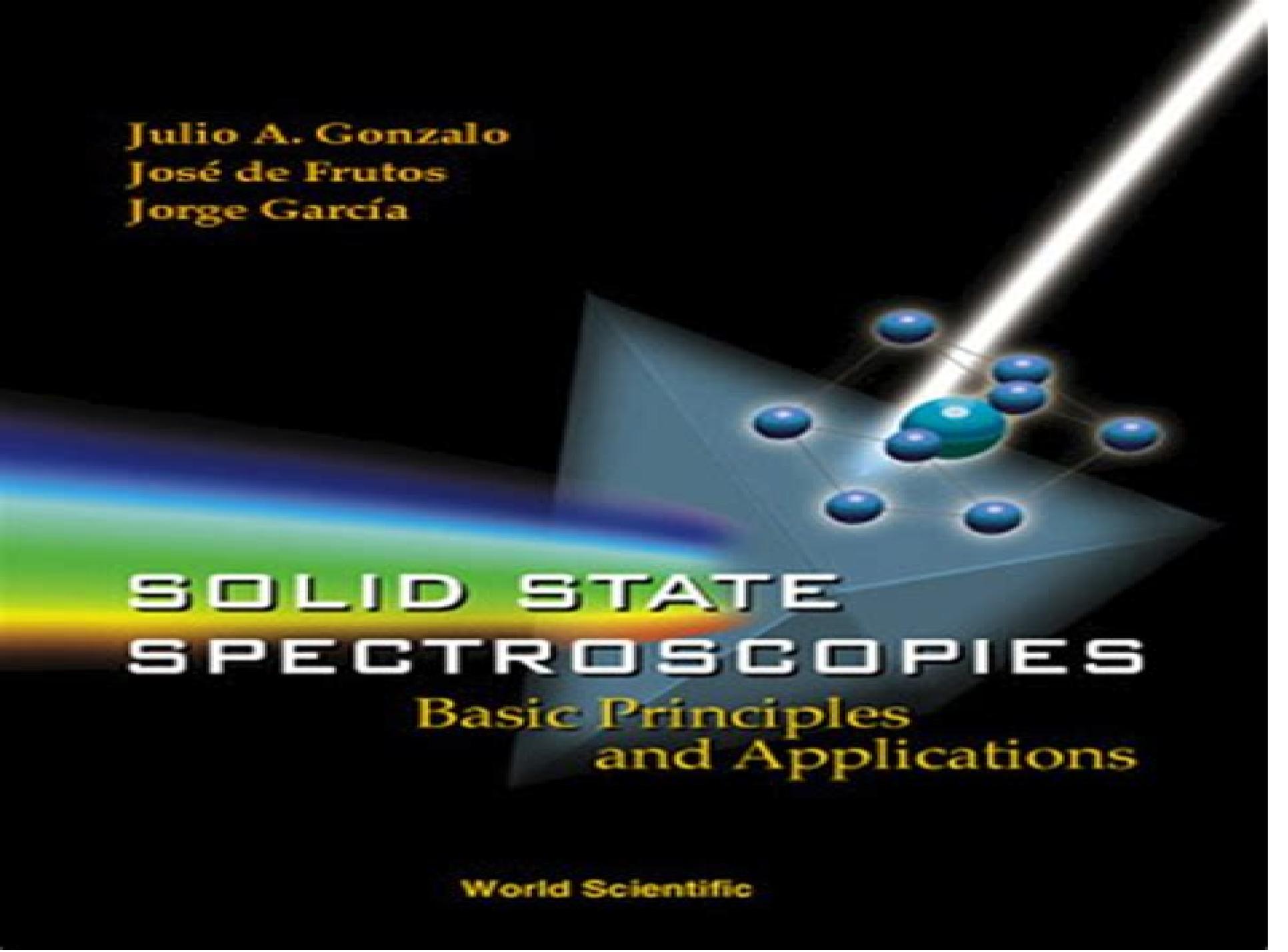


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**SOLID STATE  
SPECTROSCOPIES**

Basic Principles  
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# Solid State Spectroscopies

**Melinda J. Duer**



## **Solid State Spectroscopies:**

**Solid-State Spectroscopy** Hans Kuzmany, 2013-03-09 Spectroscopic methods have opened up a new horizon in our knowledge of solid state materials Numerous techniques using electromagnetic radiation or charged and neutral particles have been invented and worked out to a high level in order to provide more detailed information on the solids In this text new radiation sources like lasers and synchrotrons are discussed It provides a description of the linear response together with the basic principles and the technical background for various scattering experiments Fourier transform spectroscopy pulsed and magnetic NMR techniques photo emission and light and electron scattering are elucidated Each chapter includes problems The concept of this textbook is designed for graduate students **Solid State Spectroscopy**, 1970 **Solid State Spectroscopies** Julio Antonio Gonzalo, 2002 Materials physics is a very active research field at present and it is expected to remain so in the foreseeable future Different spectroscopies are currently used to investigate the structure and dynamics of crystalline materials Some traditional spectroscopies are presented in this book optical magnetic resonance ultrasonic brillouin neutron scattering soft mode and dielectric response spectroscopies For all of them the presentation is complemented with some reference material for more modern or sophisticated spectroscopies This book should be useful as an introductory textbook for a short course on solid state spectroscopies A number of exercises are worked out throughout the text Ferro and piezoelectric materials and their phase transitions are paid special attention [Handbook of Applied Solid State Spectroscopy](#) D.R. Vij, 2006-07-05 Solid State spectroscopy is a burgeoning field with applications in many branches of science including physics chemistry biosciences surface science and materials science This handbook brings together in one volume information about various spectroscopic techniques that is currently scattered in the literature of these disciplines This concise yet comprehensive volume covers theory and applications of a broad range of spectroscopies It provides an overview of sixteen spectroscopic technique and self contained chapters present up to date scientific and technical information and references with minimal overlap and redundancy **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

*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 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

**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** 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.

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**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.

**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.

Spectroscopy of Solid-State Laser-Type Materials Baldassare Di Bartolo, Guzin Armagan, 2012-12-06. This book presents an account of the course Spectroscopy of Solid State Laser Type Materials held in Erice Italy from June 16 to 30 1985. This meeting was organized by the International School of Atomic and Molecular Spectroscopy of the Ettore Majorana Centre for Scientific Culture. The objective of the course was to present and examine the recent advances in spectroscopy and theoretical modelling relevant to the interpretation of luminescence and laser phenomena in several classes of solid state materials. The available solid state matrices e.g. halides, oxides, glasses, semiconductors and the full range of possible activators: transition ions, rare earth ions, post transition ions, actinides, color centres were considered. By bringing together specialists in the fields of solid state luminescence and of solid state laser materials, this course provided a much needed forum for the critical assessment of past developments in the field to alert researchers in solid state luminescence to current technological needs for solid state tunable lasers operating in the visible and infrared spectral regions and generally to provide the scientific background for advanced work in solid state lasers. A total of 71 participants came from 54 laboratories and 21 nations: Austria, Belgium, Canada, F.R. of Germany, France, Greece, Ireland, Israel, Italy, the Netherlands, P.R. of China, Poland, Rumania, Sweden, Switzerland, South Korea, Spain, Turkey, United Kingdom, U.S.A. and U.S.S.R.

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

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 I Methods* B. Blümich, 2012-12-06 1 A R Grimmer Berlin FRG B Bl mich Aachen FRG Introduction to Solid State NMR 2 F Laupretre Paris France High Resolution <sup>13</sup>C NMR Investigations of Local Dynamics in Bulk Polymers at Temperatures Below and Above the Glass Transition Temperature 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 Many-body Aspects of Solid State Spectroscopy Solid State Spectroscopy Richard Fisher Wallis, 1986 *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 <sup>19</sup>F 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 **Multidimensional Solid-State NMR and Polymers** K. Schmidt-Rohr, Hans Wolfgang Spiess, 1994-11-15 NMR spectroscopy is the most valuable and versatile analytical tool in chemistry While excellent monographs exist on high resolution NMR in liquids and solids this is the first book to address multidimensional solid state NMR Multidimensional techniques enable researchers to obtain detailed information about the structure dynamics orientation and phase separation of solids which provides the basis of a better understanding of materials properties on the molecular level Dramatic progress much of it pioneered by the authors has been achieved in this area especially in synthetic polymers Solid state NMR now favorably competes with well established techniques such as light x ray or neutron scattering electron microscopy and dielectric and mechanical relaxation The application of multidimensional solid state NMR inevitably involves use of concepts from different fields of science This book also provides the first comprehensive treatment of both the new experimental techniques and the theoretical concepts needed in more complex data analysis The text addresses spectroscopists and polymer scientists by treating the subject on different levels descriptive technical and mathematical approaches are used when appropriate It presents an overview of new developments with numerous experimental examples and illustrations which will appeal to readers interested in both the information content as well as the potential of solid state NMR The book also contains many previously unpublished details that will be appreciated by those who want to perform the experiments The techniques described are applicable not only to the study of synthetic polymers but to numerous problems in solid state physics chemistry materials science and biophysics Presents original theories and new perspectives on scattering techniques Provides a systematic treatment of the whole subject Gives readers access to previously unpublished material Includes extensive illustrations **The Solid State** L. Jacob, 1974 *X-Ray Spectroscopy in Atomic and Solid State Physics* J. Gomes Ferreira, 2012-12-06 The fields of X Ray Spectroscopy in Atomic and Solid State Physics have undergone spectacular growth sometimes rather anarchic during the

past decade The old mold of X ray spectroscopy has been burst and this ASI provided an in depth exploration of theory and recently developed techniques however some work still needs to be done to create a new frame and reduce anarchy in the field The purpose of this Institute was to gather atomic and solid state physicists working in theoretical and new experimental techniques recently developed The lectures were concerned with among others the following fields theory of X ray near edge structure XPS and AES with conventional and synchrotron radiation sources PIXE EXAFS SEXAFS XRF SXS and molecular spectroscopy The Institute considered in detail some of these experimental techniques and the pertinent theoretical interpretations by selecting an important list of lectures which summarize the scientific contents of the ASI The truly international character of this NATO ASI its size and the high quality of the lecturers contributed to make this school a very fruitful scientific meeting Two to four general lectures were given each working day and three afternoons were reserved for presentation of current work in the form of posters We think that these poster presentations reflect the current research work of the participants

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