

NMR

Basic Principles and Progress Grundlagen und Fortschritte

Editors: P. Diehl · E. Fluck · R. Kosfeld

Volume 3

O. Kanert and M. Mehring
Static Quadrupole Effects in Disordered
Cubic Solids

F. Noack
Nuclear Magnetic Relaxation Spectroscopy



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Gérard J. Martin



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NMR, 1972 *NMR*, 1972 **NMR**, 1971 **NMR Basic Principles and Progress / NMR Grundlagen und Fortschritte** P. Diehl, E. Fluck, R. Kosfeld, 2012-12-06 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 Contents of Kanert and M Mehring Static Quadrupole Effects in Disordered Cubic Solids 1 F Noack Nuclear Magnetic Relaxation Spectroscopy 83 Static Quadrupole Effects in Disordered Cubic Solids O KANERT and M MEHRING Physikalisches Institut der Universität Münster BRD Contents I Introduction 3 II Fundamentals 4 1 Zero Field Spectra 4 2 High Field Spectra 6 3 Transformation of the Electric Field Gradient Tensor 7 III The Influence of the Quadrupole Perturbation on the NMR Signal 8 1 General Theory 8 a The Free Induction Decay 8 b The Wide Line Signal 11 c The Spin Echo Signal **NMR**, 1970 *N[uclear] M[agnetic] R[esonance]*, 1970 **NMR Basic Principles and Progress. Grundlagen und Fortschritte** P. Diehl, C L Khetrpal, R. G. Jones, 2014-03-12 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 Contents P Diehl and C L Khetrpal NMR Studies of Molecules Oriented in the Nematic Phase of Liquid Crystals 1 R G Jones The Use of Symmetry in Nuclear Magnetic Resonance 97 NMR Studies of Molecules Oriented in the Nematic Phase of Liquid Crystals P DIEHL and C L KHETRAPAL Department of Physics University of Basel Switzerland Contents 1 Introduction 3 2 Liquid Crystals 4 2 1 Classification of Liquid Crystal Phases 4 2 2 Theories of the Liquid Crystalline State 5 2 3 Nematic Phases 6 3 Experimental 7 1 4 Basic Theory for I I 7 *NMR Basic Principles and Progress. Grundlagen und Fortschritte* P. Diehl, C. L. Khetrpal, R. G. Jones, 2013-04-17 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 Contents P Diehl and C L Khetrpal NMR Studies of Molecules Oriented in the Nematic Phase of Liquid Crystals 1 R G Jones The Use of Symmetry in Nuclear Magnetic Resonance 97 NMR Studies of Molecules Oriented in the Nematic Phase of Liquid Crystals P DIEHL and C L KHETRAPAL Department of Physics University of Basel Switzerland Contents 1 Introduction 3 2 Liquid Crystals 4 2 1 Classification of Liquid Crystal Phases 4 2 2 Theories of the Liquid Crystalline State 5 2 3 Nematic Phases 6 3 Experimental 7 1 4 Basic Theory for I I 7 *NMR* P. Diehl, E. Fluck, R. Kosfeld, 1971 *NMR*. Gérard J. Martin, 1969

NMR Peter Diehl, Robert Kosfeld, Ekkehard Fluck, 1969 *NMR*. Girjesh Govil, 1981 *NMR: Basic Principles and Progress* P. Diehl, 1969 **Ab Initio Calculations** Petr Carsky, Miroslav Urban, 2012-12-06 Until recently quantum chemical ab initio calculations were restricted to atoms and very small molecules As late as in 1960 Allen I and Karo stated Almost all of our ab initio experience derives from diatomic LCAO calculations N and we have found in the literature approximately eighty calculations three fourths of which are for diatomic molecules There are approximately twenty ab initio calculations for molecules with more than two atoms but there is a decided dividing line between the existing diatomic and polyatomic wave functions Confidence in the satisfactory evaluation of the many center two electron integrals is very much less than for the diatomic case Among the noted twenty calculations SiH was the largest 4 molecule treated In most cases a minimal basis set was used and the many center two electron integrals were calculated in an approximate way Under these circumstances the ab initio calculations could hardly provide useful chemical information It is therefore no wonder that the dominating role in the field of chemical applications was played by semiempirical and empirical methods The situation changed essentially in the next decade The problem of many center integrals was solved efficient and sophisticated computer programs were developed basis sets suitable for a given type of problem were suggested and meanwhile a considerable amount of results has been accumulated which serve as a valuable comparative material The progress was of course inseparable from the development and availability of computers *Chemically Induced Dynamic Nuclear and Electron Polarizations-CIDNP and CIDEP* C. Richard, P. Granger, 2012-12-06 Anomalous electron spin state populations in the Electron Paramagnetic Resonance EPR spectra of radicals formed during radio lysis experiments were observed in 1963 by FESSENDEN and SCHULER 170a This phenomenon did not receive much attention at the time In 1967 BARGON FISCHER and JOHNSEN 5 and independently WARD and LAWLER 7 8 reported a similar phenomenon for Nuclear Magnetic Resonance NMR spectra

taken during radical reactions emission or enhanced absorption or both The earliest attempts to explain this new NMR phenomenon treated these effects in a way similar to that of Dynamic Nuclear Polarization DNP or the Overhauser effect Although the polarization has a completely different origin DNP gave its name to this effect Chemically Induced Dynamic Nuclear Polarization CIDNP The name Chemically Induced Dynamic Electron Polarization CIDEP was introduced later by analogy with CIDNP After the initial publications all the new data demonstrated that the first theory could not be correct In 1969 a new theory was proposed by CLOSS 18 and independently by KAPTEIN and OOSTERHOFF 23 and called the radical pair theory This mechanism was proposed to account for the observations of polarization in both NMR and EPR The radical pair theory is based on weak interactions in a pair of radicals the strength of interaction between the electronic states of the radicals depends in particular on the nuclear spin states

15N-NMR Spectroscopy G.J. Martin, M.L. Martin, J.-P. Gouesnard, 2012-12-06 After the proton and carbon nitrogen is with oxygen the most important atom in organic and especially bioorganic molecules However the development of nitrogen spectroscopy is indeed very recent This is due to the fact that nitrogen 14 which is the naturally abundant isotope suffers for structural studies from the disadvantages inherent in nuclei with a quadrupolar moment Table 1 1 Actually indirect 15N measurements were reported in the early days of double resonance spectroscopy and the first direct detection of 15N resonance signals at the natural abundance level was realized in 1964 R 17 at 4 33 MHz 1 T using a 15 mm o d cell in the field sweep mode 0 16 min Signal to noise ratios only of 3 4 were obtained for neat liquids and this low sensitivity of the 15N resonance still remains the main disadvantage for 15 spectroscopy Table 1 1 However nitrogen 15 has N probably more than any other nucleus benefited from the advances of NMR technology i e Fourier transformation multinuclear facilities wide bore super conducting solenoids and with the new generation of spectrometers 15N NMR is entering the field of routine investigation Nevertheless in spite of these spectacular improvements obtaining 15N spectra of diluted species or large biochemical molecules is often not very easy and a good knowledge of the relaxation properties peculiar to 15N may be necessary in order to adjust the pulse sequences and the decoupler duty cycle correctly Section 2

Acta Physica Polonica, 1973 Section A includes general physics solid state physics applied physics

Liquid Crystals Horst Stegemeyer, 1994-08-24 In 1959 about 1400 compounds forming liquid crystalline phases were known by 1992 this number had increased to about 50 000 In portable devices like wristwatches pocket calculators measuring instruments and laptop computers the liquid crystal display technology has gained total acceptance and is on the way to encompass the market of colour TV screens This development makes a volume devoted to liquid crystals in the series Topics in Physical Chemistry desirable Following the concept of this series an easy introduction to liquid crystals is given enabling the reader to understand the basic problems of liquid crystals research and application Because of the widespread field of different research activities in liquid crystals and applications various competent authors have been involved in writing chapters on Phase types structures and chemistry of liquid crystals Thermodynamical behavior

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web feb 10 2023 the insas assault rifle was the standard infantry weapon of the indian armed forces for almost three decades 5 56 mm insas rifle data a calibre 5 56 mm b length of rifle without bayonet 960 mm c length of rifle with bayonet 1110 mm d length of barrel 464 mm e weight i fixed butt with empty magazine 3 6 kg

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assembling of mag b assembling of extractor and firing pin c assembling of hand guard d assembling of piston extension and breach block e to insert piston extension assembly in gas cylinder and bracket

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