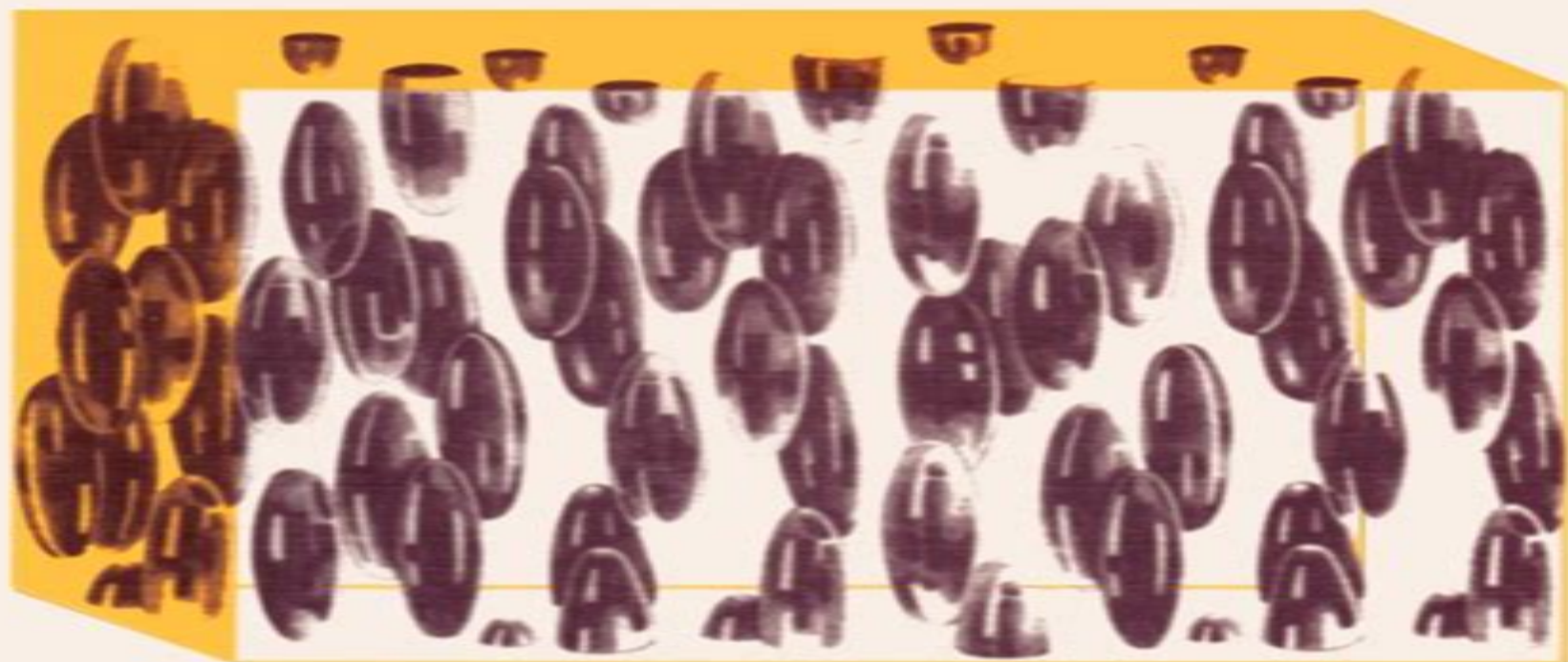


NMR SPECTROSCOPY USING LIQUID CRYSTAL SOLVENTS

J.W. EMSLEY & J.C. LINDON
University of Southampton



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Nmr Spectroscopy Using Liquid Crystal Solvents

G A Webb

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular gradient shape partially visible behind it.

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NMR Spectroscopy Using Liquid Crystal Solvents James William Emsley, J. C. Lindon, 1975 *NMR Spectroscopy Using Liquid Crystal Solvents* JW Emsley, J. C. Lindon, 2018-01-10 NMR Spectroscopy using Liquid Crystal Solvents covers the importance of using a liquid crystal solvent in NMR to derive nuclear dipolar spin spin coupling constants This book is composed of ten chapters and begins with a brief description of the features and benefits of liquid crystal in NMR spectroscopic analysis The succeeding chapters deal with the mode of operation of nuclear spin Hamiltonian for partially oriented molecules and the analysis of NMR spectra of partially oriented molecules as well as the determination of rigid molecule structure These topics are followed by discussions on internal motion studies NMR spectra from quadpolar nuclei and the anisotropy in nuclear spin spin coupling The final chapters review the theoretical and experimental studies on the anisotropy in chemical shifts nematic rotation and the nuclear magnetic double resonance This book will prove useful to analytical chemists Nuclear Magnetic Resonance of Liquid Crystals J.W. Emsley, 2012-12-06 The liquid crystalline state has been known for about a century and has been studied by many techniques Nuclear magnetic resonance has been used to study mesophases for thirty years but it has been in very recent years that advances in this form of spectroscopy have led to a rapid growth in its applications to the study both of liquid crystals and of solutes dissolved in them It has become apparent that no other method of studying liquid crystals can yield such a wealth of data and it is unrivalled as a means of probing the behaviour of the molecules in mesophases There has also been a steady increase in the study of the shape of small molecules dissolved in liquid crystals via the analysis of their NMR spectrum In fact the study of solutes was until recently regarded as a separate activity to the study of liquid crystals themselves but this artificial division arose only from the gap between the large amount of information that could be derived from the spectrum of a small molecule and the rather meagre data set obtainable from the spectra of liquid crystals This gap has however narrowed and it is now possible to derive a very detailed picture of the structure and orientational ordering of the large molecules typical of those which form liquid crystals There has also been a rapid growth of interest in the liquid crystalline state Nuclear Magnetic Resonance Spectroscopy of Liquid Crystals Ronald Y. Dong, 2010 This edited volume provides an extensive overview of how nuclear magnetic resonance can be an indispensable tool to investigate molecular ordering phase structure and dynamics in complex anisotropic phases formed by liquid crystalline materials The chapters written by prominent scientists in their field of expertise provide a state of the art scene of developments in liquid crystal research The fantastic assortment of shape anisotropy in organic molecules leads to the discoveries of interesting new soft materials made at a rapid rate which not only inject impetus to address the fundamental physical and chemical phenomena but also the potential applications in memory sensor and display devices The review volume also covers topics ranging from solute studies of molecules in nematics and biologically ordered fluids to theoretical approaches in treating elastic and viscous properties of liquid crystals This volume is aimed at graduate students

novices and experts alike and provides an excellent reference material for readers interested in the liquid crystal research It is indeed a reference book for every science library to have

Sample Chapter s Chapter 1 Novel Strategies for Solving Highly Complex NMR Spectra of Solutes in Liquid Crystals 1 464 KB Contents Novel Strategies for Solving Highly Complex NMR Spectra of Solutes in Liquid Crystals E E Burnell et al Analytical Potentials of Natural Abundance Deuterium NMR Spectroscopy in Achiral Thermotropics and Polypeptide Chiral Oriented Solvents P Lesot Noble Gas Probes in NMR Studies of Liquid Crystals J Jokisaari Bicelles OCo A Much Needed Magic Wand to Study Membrane Proteins by NMR Spectroscopy R Soong et al Advances in Proton NMR Relaxometry in Thermotropic Liquid Crystals P J Sebastiao et al Deuterium NMR Study of Magnetic Field Distortions in Ferroelectric Mesogens R Y Dong Deuteron NMR Study of the Effects of Random Quenched Disorder in 12CB Silica Dispersions D Finotello Dynamics of Liquid Crystals by Means of Deuterium NMR Relaxation C A Veracini Translational Self Diffusion Measurements in Thermotropics by Means of Statistic Field Gradients NMR Diffusometry M Cifelli Deuterium NMR Studies of Static and Dynamic Director Alignment for Low Molar Mass Nematics A Sugimura Viscoelastic Properties of Liquid Crystals Statistical Mechanical Approaches and Molecular Dynamics Simulations A V Zakharov Carbon 13 NMR Studies of Thermotropic Liquid Crystals R Y Dong A Combined DFT and Carbon 13 NMR Study of a Biaxial Bent Core Mesogen A Marini et al Readership Chemists physicists and material scientists In particular NMR spectroscopists

Nuclear Magnetic Resonance G A Webb, 2007-10-31 As a spectroscopic method nuclear magnetic resonance NMR has seen spectacular growth both as a technique and in its applications Today s 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 Nucleic Acids and NMR of Carbohydrates Lipids and Membranes For those wanting to become rapidly acquainted with specific areas of NMR Nuclear Magnetic Resonance 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 experts in their specialist fields this series is designed to help the chemistry community keep current with the latest developments in their field Each volume in the series is published either annually or biennially and is a superb reference point for researchers www.rsc.org/spr

Nuclear Magnetic Resonance Krystyna Kamienska-Trela, Jacek Wójcik, 2013 With over 17 000 articles concerning NMR published per year keeping up to date with the latest developments and applications of this technique can prove time consuming Now in its 42nd volume the Specialist Periodical Report on NMR provides a digest of the current literature compiled by experts in the field The current volume devotes several chapters to the aspects and applications of spin spin couplings and biochemists

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The Physics of Liquid Crystals P. G. de Gennes, J. Prost, 1993 The original edition was immediately recognized as a classic of condensed matter physics This new edition covers the main properties of nematics cholesterics and smectics and columnar phases particularly the symmetry and the mechanical and optical characteristics of each phase The latter includes some applications to display systems The emphasis on order of magnitude considerations should make it accessible to researchers and graduate students alike

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