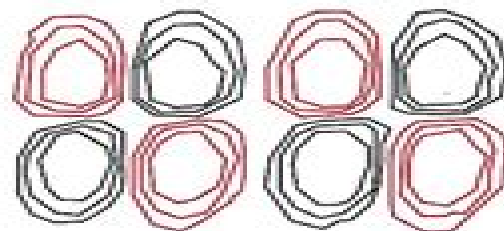


JEREMY K. M. SANDERS
and
BRIAN K. HUNTER

SECOND EDITION



Modern NMR Spectroscopy

A GUIDE
FOR CHEMISTS

Modern Nmr Spectroscopy A Guide For Chemists

Jeremy K. M. Sanders, Brian K. Hunter



Modern Nmr Spectroscopy A Guide For Chemists:

Modern NMR Spectroscopy Jeremy K. M. Sanders, Brian K. Hunter, 1987 This book provides a non mathematical descriptive approach to modern NMR spectroscopy taking examples from organic inorganic and biological chemistry It also contains much practical advice about the acquisition and use of spectra

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Modern NMR Spectroscopy Jeremy K. M. Sanders, 1993-01-01 Nuclear magnetic resonance NMR spectroscopy is the most powerful research tool used in chemistry today but many chemists have yet to realize its true potential Recent advances in NMR have led to a formidable array of new techniques and acronyms which leaves even the professional spectroscopist bewildered How then can chemists decide which approach will solve their particular structural or mechanistic problem This book provides a non mathematical descriptive approach to modern NMR spectroscopy taking examples from organic inorganic and biological chemistry It also contains much practical advice about the acquisition and use of spectra Starting from the simple one pulse sequence the text employs a building block approach to lead naturally to multiple pulse and two dimensional NMR Spectra of readily available compounds illustrate each technique One and two dimensional methods are integrated in three chapters which show how to solve problems by making connections between spins through bonds through space or through exchange There are also chapters on spectrum editing and solids The final chapter contains a case history which attempts to weave the many strands of the text into a coherent strategy This second edition reflects the progress made by NMR in the past few years there is a greater emphasis on inorganic nuclei some two colour spectra are used the treatment of heteronuclear experiments has moved from direct to inverse detection many new examples and spectra have been included and the literature to early 1992 has been covered An accompanying text *Modern NMR spectroscopy A workbook of chemical problems* by Jeremy Sanders

Edwin Constable and Brian Hunter is available from OUP Using a combination of worked examples and set problems this workbook provides a practical guide to the accurate interpretation of NMR spectra which will be of value to students and professional scientists alike

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Analysis of NMR Spectra R. A. Hoffman, S. Forsen, B. Gestblom, 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

Analysis of NMR Spectra A Guide for Chemists R A HOFFMAN t S FORSEN Division of Physical Chemistry Chemical Center Lund Institute of Technology Lund Sweden B GESTBLOM Institute of Physics University of Uppsala Sweden

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Modern NMR Techniques for Synthetic Chemistry Julie Fisher, 2014-10-13

A blend of theory and practical advice

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Handbook of Spectroscopy Günter Gauglitz, David S. Moore, 2014-06-09 This second thoroughly revised updated and enlarged edition provides a straightforward introduction to spectroscopy showing what it can do and how it does it together with a clear integrated and objective account of the wealth of information that may be derived from spectra It also features new chapters on spectroscopy in nano dimensions nano optics and polymer analysis Clearly structured into sixteen sections it covers everything from spectroscopy in nanodimensions to medicinal applications spanning a wide range of the electromagnetic spectrum and the physical processes involved from nuclear phenomena to molecular rotation processes In addition data tables provide a comparison of different methods in a standardized form allowing readers to save valuable time in the decision process by avoiding wrong turns and also help in selecting the instrumentation and performing the experiments These four volumes are a must have companion for daily use in every lab

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