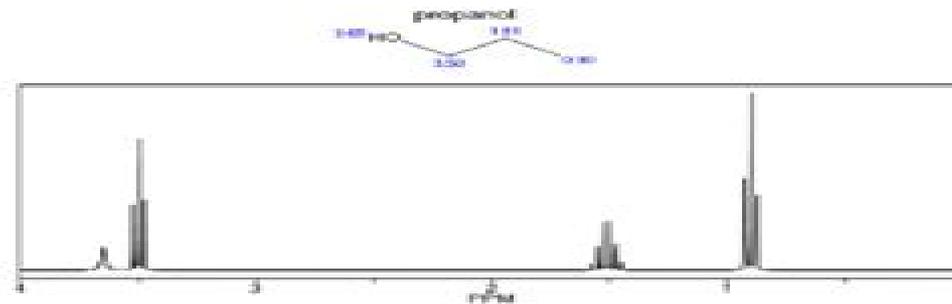


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An Introduction To Proton Nmr Spectroscopy

Scott C. Dulebohn



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NMR Addison Ault, Gerald O. Dudek, 1976 **Introduction to NMR Spectroscopy** Raymond John Abraham, J. Fisher, P. Loftus, 1988-11-24 Introduction to NMR Spectroscopy R J Abraham School of Chemistry University of Liverpool J Fisher Biological NMR Centre University of Leicester P Loftus Stuart Pharmaceuticals Delaware USA This book is a new extended edition of Proton and Carbon 13 NMR by R J Abraham and P Loftus The initial chapters cover the fundamentals of NMR spectroscopy commencing with an explanation of how the nuclear magnetic response occurs followed by a detailed discussion of chemical shifts and coupling constants parameters not discussed to any length in other textbooks aimed at a similar level of interest Emphasis is given to the vectorial description of multipulse experiments as this is probably the easiest way to grasp how different information may be gained simply by changing a pulse sequence An understanding of multipulse NMR is a prerequisite for understanding 2D NMR The section on 2D NMR begins with a discussion of the resolved experiment This is a logical initial choice as the spectra produced by this experiment may be readily compared with 1D spectra Following on from this both heteronuclear and homonuclear correlation spectroscopy are described and examples given The final section of the book should be considered as an applications section It is aimed at showing the reader that NMR is not just of use to the synthetic organic chemist but is also of use to biochemists for investigating the solution state structure and function of proteins enzymes etc The application of high resolution NMR to the solid state is also discussed thereby indicating the developments which have taken place as far as spectrometer hardware is concerned **Nuclear magnetic resonance spectroscopy** Addison Ault, Gerald O. Dudek, 1976 *Organic Chemistry* Michael B. Smith, 2010-10-18 Based on the premise that many if not most reactions in organic chemistry can be explained by variations of fundamental acid base concepts *Organic Chemistry An Acid Base Approach* provides a framework for understanding the subject that goes beyond mere memorization The individual steps in many important mechanisms rely on acid base reactions and the ability to see these relationships makes understanding organic chemistry easier Using several techniques to develop a relational understanding this textbook helps students fully grasp the essential concepts at the root of organic chemistry Providing a practical learning experience with numerous opportunities for self testing the book contains Checklists of what students need to know before they begin to study a topic Checklists of concepts to be fully understood before moving to the next subject area Homework problems directly tied to each concept at the end of each chapter Embedded problems with answers throughout the material Experimental details and mechanisms for key reactions The reactions and mechanisms contained in the book describe the most fundamental concepts that are used in industry biological chemistry and biochemistry molecular biology and pharmacy The concepts presented constitute the fundamental basis of life processes making them critical to the study of medicine Reflecting this emphasis most chapters end with a brief section that describes biological applications for each concept This text provides students with the skills to proceed to the next level of study

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