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#### Chapter 1 INTRODUCTION TO NMR SPECTROSCOPY

4 Introduction to NMR Spectroscopy Table 12 Properties of NMR Active Nuclei Nuclei1  $\gamma(\text{rad}\cdot\text{sec}^{-1} \cdot \text{gauss}^{-1})\dagger$  INaturalAbundance(%) 1H26,753 1/2 99980 2H4,106 1 0016 19F25,179 1/2 1000002 13C6,728 1/2 11083 15N-2,712 1/2 0373 31P10,841 1/2 10000 1The term "Protons" is used interchangeably with 1Hinthetext 2Fluorine is not normally found in biopolymers, therefore it has to

#### NMR Spectroscopy: Principles and Applications

Understanding NMR Spectroscopy, James Keeler, John Wiley & Sons ISBN-13 978-0-470-01786-9 Principles of Nuclear Magnetic Resonance in One and Two Dimensions Richard R Ernst, G Bodenhausan, and A Wokaun NMR can be clearly explained by theory and every theory can be tested by a suitable experiment

#### Chapter 13: Nuclear Magnetic Resonance (NMR) Spectroscopy

Chapter 13: Nuclear Magnetic Resonance (NMR) Spectroscopy direct observation of the H's and C's of a molecules Nuclei are positively charged and

spin on an axis; they create a tiny magnetic field + + Not all nuclei are suitable for NMR  $^1\text{H}$  and  $^{13}\text{C}$  are the most important NMR active nuclei in organic chemistry Natural Abundance  $^1\text{H}$  99.98%  $^{13}\text{C}$  1.1%

### **NMR Hands On**

NMR Spectroscopy Explained : Simplified Theory, Applications and Examples for Organic Chemistry and Structural Biology: Neil E Jacobsen, John Wiley & Sons, Inc 2007, ISBN 978-0-471-73096-5 NMR ...

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Organic Spectra Photoelectron Spectroscopy H D Roth 1 THEORY and INTERPRETATION of ORGANIC SPECTRA H D Roth 2D NMR Spectroscopy To record a normal FT NMR spectrum we apply a pulse to our spin system and record the free induction decay (FID) following the pulse The spectrum is obtained by Fourier Transform where the time dependent FID is

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information on these applications and the 2D NMR techniques that are used in them, please see the "Further Reading" section References 1 Aue, W, E Bartholdi, RR Ernst, Two-dimensional spectroscopy Application to nuclear magnetic resonance The Journal of ...

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spectroscopy where there is a very large difference In between these extremes are many of the common techniques such as NMR, EPR, infrared absorption, electronic absorption and fluorescence emission, and vacuum ultraviolet (UV) spectroscopy Figure 11 indicates the wavelength ranges of some commonly used types of radiation

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