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In an NMR experiment, the energy input to make the nuclei resonate is produced by a Radio Frequency (RF) PULSE RF field: magnetic field B 1 perpendicular to the constant magnetic field B

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The frequency spectrum of the emitted NMR RF signal is obtained by a mathematical analysis that is called Fourier transform The exact frequency of the emitted radiation depends on the chemical environment. The frequency is determined relative to a reference signal. As this relative frequency it is called chemical shift. (i.e. Frequency)

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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 ...

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Nuclear Magnetic Resonance. NMR is based on the behavior of a sample placed in an electromagnet and irradiated with radiofrequency waves: 60 -900 MHz (1 ? 0.5 m) The magnet is typically large, strong, \$\$\$, and delivers a stable, uniformfield -required for the best NMR data. A transceiver antenna, called the NMR probe, is inserted into the center bore of the magnet, and the sample is placed inside the probe.

Introduction to Nuclear Magnetic Resonance Spectroscopy

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NMR uses a large magnet (Magnetic) to probe the intrinsic spin properties of atomic nuclei. Like all spectroscopies, NMR uses a component of electromagnetic radiation (radio frequency waves) to promote transitions between nuclear energy levels (Resonance). Most chemists use NMR for structure determination of small molecules.

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Infrared (IR) Spectroscopy uses a beam of infrared light to analyze the structure of organic compounds. Whereas NMR analyzes the atoms present, IR instead analyzes the bonds present. NMR produces a set of sharp signals where every atom's signal may be discerned, but IR only produces broad absorptions which may frequently overlap.

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NMR spectroscopy is the most common and comprehensive technique for studying the structure of organic molecules. In a broad sense, it still works by the same principle as other spectroscopies, and that is the interaction of the molecule with certain type of energy to produce different energy states and deduce information based on these differences. There is, however, a lot more information you can get from an NMR spectrum than what we have seen in the IR spectroscopy and Mass Spectrometry.

NMR spectroscopy - An Easy Introduction - Chemistry Steps

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