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Spectroscopic Methods In Organic Che

An accessible and concise overview of the essentials of spectroscopic methods in organic chemistry for students; Includes problem sets, answers, and extensive spectra determination exercises; Offers a rich resource and great support for teaching this subject at a graduate or undergraduate level; see more

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Nuclear Magnetic Resonance Spectroscopy: Absorption in the low-energy radio-frequency part of the spectrum causes excitation of nuclear spin states. NMR spectrometers are tuned to certain nuclei (e.g. ^1H , ^{13}C , ^{19}F & ^{31}P). For a given type of nucleus, high-resolution spectroscopy distinguishes and counts atoms in different locations in the ...

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The spectroscopic techniques in Table 10.1.1 and Table 10.1.2 use instruments that share several common basic components, including a source of energy, a means for isolating a narrow range of wavelengths, a detector for measuring the signal, and a signal processor that displays the signal in a form convenient for the analyst.

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