



## Organic Structural Spectroscopy

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Pearson Education Limited, United Kingdom, 2013. Paperback. Book Condition: New. Pearson New International Edition. 274 x 215 mm. Language: N/A. Brand New Book. Chapter 1 Introduction 1-1 The Spectroscopic Approach to Structure Determination 1-2 Contributions of Different Forms of Spectroscopy 1-3 The Electromagnetic Spectrum 1-4 Molecular Weight and Molecular Formula 1-5 Structural Isomers and Stereoisomers Problems Part I NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY Chapter 2 Introduction 2-1 Magnetic Properties of Nuclei 2-2 The Chemical Shift 2-3 Excitation and Relaxation 2-4 Pulsed Experiments 2-5 The Coupling Constant 2-6 Quantification and Complex Splitting 2-7 Commonly Studied Nuclides 2-8 Dynamic Effects 2-9 Spectra of Solids 2-10 Experimental Methods Problems Tips on Solving NMR Problems Bibliography Chapter 3 The Chemical Shift 3-1 Factors That Influence Proton Shifts 3-2 Proton Chemical Shifts and Structure 3-3 Medium and Isotope Effects 3-4 Factors That Influence Carbon Shifts 3-5 Carbon Chemical Shifts and Structure 3-6 Tables of Chemical Shifts Problems Further Tips on Solving NMR Problems Bibliography Chapter 4 The Coupling Constant 4-1 First-Order Spectra 4-2 Chemical and Magnetic Equivalence 4-3 Signs and Mechanisms 4-4 Couplings over One Bond 4-5 Geminal Couplings 4-6 Vicinal Couplings 4-7 Long-Range Couplings 4-8 Spectral Analysis 4-9 Second-Order Spectra 4-10 Tables of Coupling Constants...



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