



Spectroscopic Methods in Organic Chemistry

By Williams, Dudley H.; Fleming, Ian

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Summary: Preface Chapter 1: Ultraviolet and visible spectra 1.1 Introduction 1.2 Chromophores 1.3 The absorption laws 1.4 Measurement of the spectrum 1.5 Vibrational fine structure 1.6 Choice of solvent 1.7 Selection rules and intensity 1.8 Solvent effects 1.9 Searching for a chromophore 1.10 Definitions 1.11 Conjugated dienes 1.12 Polyenes 1.13 Polyenynes and polyynes 1.14 Ketones and aldehydes; * transitions 1.15 Ketones and aldehydes; n* transitions 1.16 ,Unsaturated acids, esters, nitriles and amides 1.17 The benzene ring 1.18 Substituted benzene rings 1.19 Polycyclic aromatic hydrocarbons 1.20 Heteroaromatic compounds 1.21 Quinones 1.22 Corroles, chlorins and porphyrins 1.23 Non-conjugated interacting chromophores 1.24 The effect of steric hindrance to coplanarity 1.25 Internet 1.26 Bibliography Chapter 2: Infrared spectra 2.1 Introduction 2.2 Preparation of samples and examination in an infrared spectrometer 2.3 Examination in a Raman spectrometer 2.4 Selection rules 2.5 The infrared spectrum 2.6 The use of the tables of characteristic group frequencies 2.7 Absorption frequencies of single bonds to hydrogen 3600-2000 cm⁻¹ 2.8 Absorption frequencies of triple and cumulated double bonds 2300-1930 cm⁻¹ 2.9 Absorption frequencies of the double-bond region 1900-1500 cm⁻¹ 2.10 Groups absorbing in the...

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