



## Spectroscopic Methods in Organic Chemistry (Paperback)

By Manfred Hesse, Herbert Meier, Bernd Zeeh

Thieme Medical Publishers Inc, United States, 2008. Paperback. Condition: New. 2nd. Language: English . Brand New Book. Download Area for Lecturers: This book provides the necessary equipment for the application of spectroscopic methods in organic chemistry, as required as part of chemistry courses in all universities. The following methods are explained and examples given: UV/Vis Spectroscopy, derivative Spectroscopy, chiroptical methods CD and ORD. Aggregated molecules, charge transfer complexes, conjugated oligomers. Infrared (IR) and Raman Spectroscopy, Fourier transform IR spectroscopy, and GC/IR combination methods. Nuclear Magnetic Resonance Spectroscopy (NMR),  $^1\text{H}$ -,  $^{13}\text{C}$ -,  $^{19}\text{F}$ -,  $^{15}\text{N}$ - und  $^{31}\text{P}$ -NMR, spin decoupling, triple resonance, INDOOR difference spectroscopy, 2D- and 3D-NMR, COSY, TOCSY, ROESY and NOESY spectra, NOE, INEPT, and DEPT technique, DEPTQ, HETCOR, HRMAS, INADEQUATE and lanthanide shift reagents, simulation and calculation of spectra, and the combination of separation and NMR methods. The new 2D NMR techniques TOCSY, HMQC and HMBC, more examples and a guide to completely assign all  $^1\text{H}$  and  $^{13}\text{C}$  NMR signals of a given substrate. Mass spectrometry (MS), electron impact and chemical ionization (EI and CI), fast atom bombardment (FAB), electrospray und thermospray ionization (ESI and TSI), MS/MS technique (MSn), field ionization and field desorption (FI and FD), atmospheric pressure chemical ionization (APCI), MALDI TOF...



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