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Keeping mathematics to a minimum, this book introduces nuclear properties, nuclear screening, chemical shift, spin-spin coupling, and relaxation. It is one of the few books that provides the student with the physical background to NMR spectroscopy from the point of view of the whole of the periodic table rather than concentrating on the narrow applications of ¹H and ¹³C NMR spectroscopy. Aids to structure determination, such as decoupling, the nuclear Overhauser effect, INEPT, DEPT, and special editing, and two dimensional NMR spectroscopy are discussed in detail with examples, including the complete assignment of the ¹H and ¹³C NMR spectra of D-amylgdin. The authors examine the requirements of a modern spectrometer and the effects of pulses and discuss the effects of dynamic processes as a function of temperature or pressure on NMR spectra. The book concludes with chapters on some of the applications of NMR spectroscopy to medical and non-medical imaging techniques and solid state chemistry of both I = F1/2 and I > F1/2 nuclei. Examples and problems, mainly from the recent inorganic/organometallic chemistry literature support the text throughout. Brief answers to all the problems are provided in the text with full answers at the end of the book.

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A true introductory text for learning the spectroscopic techniques of Nuclear Magnetic Resonance, Infrared, Ultraviolet and Mass Spectrometry. It can be used in a stand alone spectroscopy course or as a supplement to the sophomore-level organic chemistry course.

This book is the revision of a widely-respected book on spectroscopy. The book covers all four areas of organic spectroscopy including NMR, MS, electronic (including CD and optical rotary dispersion), and vibrational (which also includes Raman). The book is the most complete and comprehensive treatment on the subject. It covers currently used techniques for determining the structure of organic and biological compounds. It also has a strong emphasis on problem solving and is distinctly pedagogical. This book is ideal for any practicing or future organic or biochemist.

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Featuring new experiments, a new essay, and new coverage of nanotechnology, this organic chemistry laboratory textbook offers a comprehensive treatment of laboratory techniques including small-scale and some microscale methods that use standard-scale (macroscale) glassware and equipment. The book is organized based on essays and topics of current interest and covers a large number of traditional organic reactions and syntheses, as well as experiments with a biological or health science focus. Seven introductory technique-based experiments, thirteen project-based experiments, and sections on green chemistry and biofuels spark students' interest and engage them in the learning process. Instructors may choose to offer Cengage Learning's optional Premium Website, which contains videos on basic organic laboratory techniques. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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