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This up-to-date account of key areas in modern organic spectroscopy describes the four major instrumental methods used routinely by organic chemists: ultra-violet/visible, infra-red, nuclear magnetic resonance spectroscopy, and mass spectroscopy. It provides a concise introduction to the physical background of each, describing how molecules interact with electromagnetic radiation or how they fragment when excited sufficiently, and how this information may be applied to the determination of chemical structures. It also includes simple descriptions of instrumentation and emphasizes modern methodology throughout, such as the Fourier-transform approach to data analysis. Each chapter concludes with problems to test readers' understanding of organic spectroscopy.