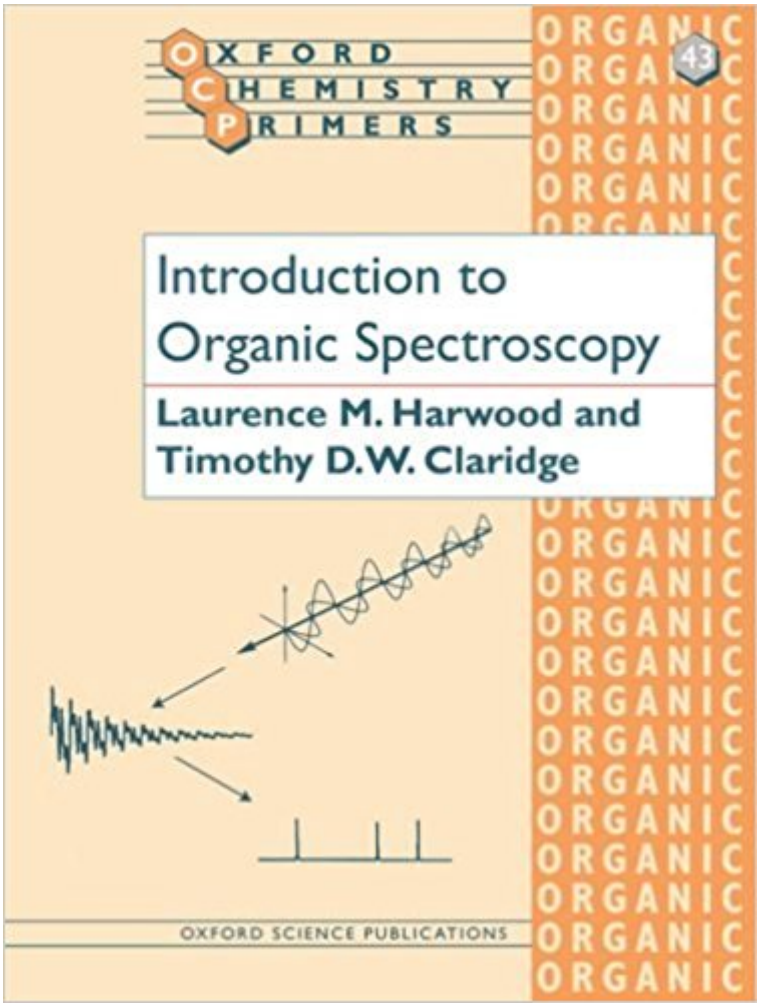
Introduction To Organic Spectroscopy (Oxford Chemistry Primers)



Synopsis

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.

Book Information

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Customer Reviews

'...it could be extremely valuable to Final Year students, as a revision aid, or to professional chemists wanting a quick refresher course.' Aslib Book Guide, Vol. 62, No. 7, July 1997

Modern spectroscopic techniques are now fundamental to the success of organic chemistry and it is essential that students and practitioners of this discipline have a sound understanding of these techniques. This book describes the four major instrumental methods used routinely by organic chemists; ultra-violet/visible, infrared and nuclear magnetic resonance spectroscopy, and mass

spectrometry. It includes a concise introduction to the physical background of each, describing how molecules interact with electromagnetic radiation (UV, IR, and NMR), or how they fragment when excited sufficiently, and how this information may be applied to the determination of chemical structures. It includes simple descriptions of instrumentation and the emphasis throughout is on modern methodology, such as the Fourier-transform approach to data analysis. Each chapter concludes with a problem section. This book will be useful to those new to modern organic spectroscopic analysis and as reference material in chemistry teaching laboratories.

def. not worth $24 full price, thank goodness i only paid ~$7 for it. good for a very basic introduction to spectroscopy

GOOD BOOK

Super helpful.

It was a class suggested book and I haven’t opened it once it is unnecessary to buy but the sender sent it quick and it was of the quality advertised!