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INFRARED SPECTROSCOPY: FUNDAMENTALS AND APPLICATIONS;
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 Radiation; 1.2 Infrared Absorptions; 1.3 Normal Modes of Vibration; 1.4
 Complicating Factors; 1.4.1 Overtone and Combination Bands; 1.4.2
 Fermi Resonance; 1.4.3 Coupling; 1.4.4 Vibration-Rotation Bands;
 References; 2 Experimental Methods; 2.1 Introduction; 2.2 Dispersive
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 2.3.1 Michelson Interferometers; 2.3.2 Sources and Detectors
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 Chromatography-Infrared Spectroscopy; 2.8 Thermal Analysis-Infrared
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 3.2.2 Near-Infrared Region; 3.2.3 Far-Infrared Region; 3.3
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 Baseline Correction; 3.5.2 Smoothing; 3.5.3 Difference Spectra; 3.5.4
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 Food Science; 8.4 Agricultural Applications; 8.5 Pulp and Paper
 Industries; 8.6 Paint Industry
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Sommario/riassunto

Provides an introduction to those needing to use infrared spectroscopy for the first time, explaining the fundamental aspects of this technique, how to obtain a spectrum and how to analyse infrared data covering a wide range of applications. Includes instrumental and sampling techniques Covers biological and industrial applications Includes suitable questions and problems in each chapter to assist in the analysis and interpretation of representative infrared spectra Part of the ANTS (Analytical Techniques in the Sciences) Series.