

Reading Assignment - Chapter 3

Read any combination of the following sections so that you have read a total of five pages. When sections begin or end with less than half of a page, don't include that page, or add two half pages to make one whole page. Please choose sections which will help you to review, fill in gaps in your understanding, or increase your knowledge.

12-1 Introduction (p 508)

12-2 The Electromagnetic Spectrum (p 509)

12-3 The Infrared Region (p 510)

12-4 Molecular Vibrations (p 511)

12-5 IR-active and IR-inactive vibrations (p 513)

12-6 Measurement of the IR Spectrum (p 514)

12-7 Infrared Spectroscopy of Hydrocarbons (p 517)

12-8 Characteristic Absorptions of Alcohols and Amines (p 522)

12-9 Characteristic Absorptions of Carbonyl Compounds (p 523)

12-10 Characteristic Absorptions of C-N Bonds (p 529)

12-11 Simplified Summary of IR Stretching Frequencies (530)

12-12 Reading and Interpreting IR Spectra (Solved Problems) (p 532)