

Reading Assignment - Chapter 5

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.

- 13-1 Introduction (p 559)
- 13-2 Theory of Nuclear Magnetic Resonance (p 559)
This is very technical – only read if you are interested in the physics behind NMR
- 13-3 Magnetic Shielding by Electrons (p 562)
Same as 13-2
- 13-4 The NMR Spectrometer (p 564)
- 13-5 The Chemical Shift (p 565)
- 13-6 The Number of Signals (p 572)
- 13-7 Areas of the Peaks (p 573)
- 13-8 Spin-spin Splitting (p 576)
- 13-9 Complex Splitting (p 585)
- 13-10 Stereochemical Nonequivalence of Protons (p 588)
- 13-11 Time Dependence of NMR Spectroscopy (p 591)
- NMR Problem-Solving Strategies (p 594)
- 13-12 Carbon-13 NMR Spectroscopy (p 599)
- 13-13 Interpreting Carbon NMR Spectra (p 607)
- 13-14 Nuclear Magnetic Resonance Imaging (MRI) (p 609)
Similarities between NMR and medical imaging by MRI