

## CHAPTER OVERVIEW

### 5: Magnetic Resonance Spectroscopies

- 5.1: Nuclear Magnetic Resonance (NMR) - Intrinsic Spins
- 5.2: Nuclear Magnetic Resonance (NMR) - Turning on the Field
- 5.3: Spin 1/2 Spectra
- 5.4: Chemical Shifts
- 5.5: Boltzmann Statistics
- 5.6: Larmour Frequency
- 5.7: Ensemble Effects
- 5.8: Precession and Relaxation
- 5.9: Chemical Shifts
- 5.10: Fourier Transform (pulsed) NMR - The way things are really done these days
- 5.11: Spin-Spin, J-Coupling or indirect dipole-dipole coupling (all the same phenomenon)
- 5.12: <sup>13</sup>C NMR Spectroscopy
- 5.13: Nuclear Overhauser Effect (NOE) and 2-D NMR
- 5.14: Electron Paramagnetic Resonance
- 5.15: EPR Instrumentation
- 5.16: EPR Signals
- 5.17: EPR - Hyperfine Structure

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