

# Swihart Ch. 4 Main Concepts

Wave and photon properties of radiation

Doppler effect (for radiation)

Spectra (continuous/thermal, emission, and absorption)

Bohr atom (energy, transitions)

Thermal radiation

- Stefan-Boltzmann Law

- Thermal luminosity

- Planck function

- Wien's Law

Kinetic theory of gases

- Thermal equilibrium

- Energy equipartition, average energy

- Ideal gas law, total energy of a gas

- Gas pressure

Absorption of radiation

- Cross-section area of particle

- Optical depth

- Mean free path