

Solutions to the Exercises of *C. J. Foot's Atomic Physics*

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1 Early atomic physics

Key formulas:

$$\frac{1}{\lambda} = R \left(\frac{1}{n^2} - \frac{1}{n'^2} \right) \quad (1.1)$$

$$R_H = R \frac{m_H}{m_e + m_H} \quad (1.2)$$

$$a_0 = \frac{\hbar^2}{(Ze^2/4\pi\epsilon_0)m_e} = 0.529 \times 10^{-10} \text{ m} \quad (1.3)$$

$$E = -\frac{Ze^2/4\pi\epsilon_0}{2a_0} \frac{1}{n^2} \propto Z^2 \quad (1.4)$$

$$\Delta E = \frac{\alpha^2}{n^2} E \quad (1.5)$$

$$\alpha = \frac{e^2/4\pi\epsilon_0}{\hbar c} = 1/137 \quad (1.6)$$

$$\frac{f}{c} = R_\infty ((Z - \sigma_K)^2 - (Z - \sigma_L)^2) \quad (1.7)$$

$$\rho(\omega) = \frac{\hbar\omega^3}{\pi^2 c^3} \frac{1}{\exp \hbar\omega/kT - 1} \quad (1.8)$$

$$\frac{N_2}{g_2} = \frac{N_1}{g_1} \exp \left(-\frac{\hbar\omega}{kT} \right) \quad (1.9)$$

$$P = \frac{e^2 E_0^2 \omega^4}{12\pi\epsilon_0 c^3} \quad (1.10)$$

$$\Omega_L = \frac{eB}{2m_e} \quad (1.11)$$

$$\tau = \frac{6\pi\epsilon_0 m_e c^3}{e^2 \omega^3} \quad (1.12)$$

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