

# Solutions to the Exercises of

## *C. J. Foot's Atomic Physics*

Chenchao Zhao

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(Dated: June 28, 2011)

## 1 Early atomic physics

Key formulae:

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

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

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

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

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

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

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

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

$$\frac{N_2}{\sigma_2} = \frac{N_1}{\sigma_1} \exp \left( -\frac{\hbar\omega}{kT} \right) \quad (1.9)$$

$$P = \frac{e^2 x_0^2 \omega^3}{12\pi\epsilon_0 c^3} \quad (1.10)$$

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

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

# Solution Manual Atomic Physics

**Fujia Yang, Joseph H Hamilton**

## Solution Manual Atomic Physics:

**Modern Atomic And Nuclear Physics (Revised Edition): Problems And Solutions Manual** Fujia Yang,Joseph H Hamilton,2010-06-01 This problems and solutions manual is intended as a companion to an earlier textbook Modern Atomic and Nuclear Physics Revised Edition World Scientific 2010 This manual presents solutions to many end of chapter problems in the textbook These solutions are valuable to the instructors and students working in the modern atomic field Students can master important information and concept in the process of looking at solutions to some problems and become better equipped to solve other problems that the instructors propose

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Physics, Volume 2 David Halliday, Robert Resnick, Kenneth S. Krane, 2010-04-20 Written for the full year or three term Calculus based University Physics course for science and engineering majors the publication of the first edition of Physics in 1960 launched the modern era of Physics textbooks It was a new paradigm at the time and continues to be the dominant model for all texts Physics is the most realistic option for schools looking to teach a more demanding course The entirety of Volume 2 of the 5th edition has been edited to clarify conceptual development in light of recent findings of physics education research End of chapter problem sets are thoroughly over hauled new problems are added outdated references are deleted and new short answer conceptual questions are added

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