

# Solutions to the Exercices of

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

Chenchao Zhao

*Department of Physics, Beijing Normal University, Beijing, China*

(Dated: June 28, 2011)

### 1 Early atomic physics

Key formulas:

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

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

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

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

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

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

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

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

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

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

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

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

# Atomic Physics Solution Manual Foot

**David Halliday, Robert Resnick, Jearl Walker**



## **Atomic Physics Solution Manual Foot:**

Modern Atomic and Nuclear Physics Fujia Yang, Joseph H. Hamilton, 2010 The textbook itself is the culmination of the authors many years of teaching and research in atomic physics nuclear and particle physics and modern physics It is also a crystallization of their intense passion and strong interest in the history of physics and the philosophy of science Together with the solution manual which presents solutions to many end of chapter problems in the textbook they are a valuable resource to the instructors and students working in the modern atomic field Publisher s website

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**Technical Abstract Bulletin** Defense Documentation Center (U.S.),1964 **The Publishers' Trade List Annual** ,1969 *Signals* ,1966 *List* ,1948 *Atomic Industry Reporter* ,1959 **The British National Bibliography** Arthur James Wells,2004 **Modern Atomic And Nuclear Physics (Revised Edition): Problems And Solutions Manual** Fujia Yang,Joseph H Hamilton,2010-06-01

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### **Table of Contents Atomic Physics Solution Manual Foot**

1. Understanding the eBook Atomic Physics Solution Manual Foot
  - The Rise of Digital Reading Atomic Physics Solution Manual Foot
  - Advantages of eBooks Over Traditional Books
2. Identifying Atomic Physics Solution Manual Foot
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Atomic Physics Solution Manual Foot
  - User-Friendly Interface
4. Exploring eBook Recommendations from Atomic Physics Solution Manual Foot
  - Personalized Recommendations
  - Atomic Physics Solution Manual Foot User Reviews and Ratings
  - Atomic Physics Solution Manual Foot and Bestseller Lists

5. Accessing Atomic Physics Solution Manual Foot Free and Paid eBooks
  - Atomic Physics Solution Manual Foot Public Domain eBooks
  - Atomic Physics Solution Manual Foot eBook Subscription Services
  - Atomic Physics Solution Manual Foot Budget-Friendly Options
6. Navigating Atomic Physics Solution Manual Foot eBook Formats
  - ePub, PDF, MOBI, and More
  - Atomic Physics Solution Manual Foot Compatibility with Devices
  - Atomic Physics Solution Manual Foot Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Atomic Physics Solution Manual Foot
  - Highlighting and Note-Taking Atomic Physics Solution Manual Foot
  - Interactive Elements Atomic Physics Solution Manual Foot
8. Staying Engaged with Atomic Physics Solution Manual Foot
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Atomic Physics Solution Manual Foot
9. Balancing eBooks and Physical Books Atomic Physics Solution Manual Foot
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Atomic Physics Solution Manual Foot
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Atomic Physics Solution Manual Foot
  - Setting Reading Goals Atomic Physics Solution Manual Foot
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Atomic Physics Solution Manual Foot
  - Fact-Checking eBook Content of Atomic Physics Solution Manual Foot
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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