

Assessment

Chapter Test B

Atomic Physics

MULTIPLE CHOICE

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

1. What is the frequency of a photon with an energy of $1.99 \times 10^{-19} \text{ J}$?
($h = 6.63 \times 10^{-34} \text{ J}\cdot\text{s}$)
a. $1.00 \times 10^{14} \text{ Hz}$
b. $2.00 \times 10^{14} \text{ Hz}$
c. $3.00 \times 10^{14} \text{ Hz}$
d. $4.00 \times 10^{14} \text{ Hz}$
2. Light with an energy equal to three times the work function of a given metal causes the metal to eject photoelectrons. What is the ratio of the maximum photoelectron kinetic energy to the work function?
a. 1 : 1
b. 2 : 1
c. 3 : 1
d. 4 : 1
3. A monochromatic light beam with a quantum energy value of 3.0 eV is incident upon a photocell. The work function of the photocell is 1.6 eV. What is the maximum kinetic energy of the ejected electrons?
a. 4.6 eV
b. 4.8 eV
c. 1.4 eV
d. 2.4 eV
4. What causes the bright lines in the emission spectrum of an element to occur?
a. Photons are absorbed when electrons jump from a higher-energy to a lower-energy state.
b. Photons are emitted when electrons jump from a higher-energy to a lower-energy state.
c. Photons are absorbed when electrons jump from a lower-energy to a higher-energy state.
d. Photons are emitted when electrons jump from a lower-energy to a higher-energy state.
5. What causes the dark lines in the absorption spectrum of an element to occur?
a. Photons are absorbed when electrons jump from a higher-energy to a lower-energy state.
b. Photons are emitted when electrons jump from a higher-energy to a lower-energy state.
c. Photons are absorbed when electrons jump from a lower-energy to a higher-energy state.
d. Photons are emitted when electrons jump from a lower-energy to a higher-energy state.

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Table of Contents Physical Science Chapter 10 Test

1. Understanding the eBook Physical Science Chapter 10 Test
 - The Rise of Digital Reading Physical Science Chapter 10 Test
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Chapter 10 Test
 - 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 a Physical Science Chapter 10 Test
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Chapter 10 Test
 - Personalized Recommendations

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

- 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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