

Multiple Choice Questions I

8.1. One requires 11eV of energy to dissociate a carbon monoxide molecule into carbon and oxygen atoms. The minimum frequency of the appropriate electromagnetic radiation to achieve the dissociation lies in

- a) visible region
- b) infrared region
- c) ultraviolet region
- d) microwave region

Answer:

- c) ultraviolet region

8.2. A linearly polarized electromagnetic wave given as $E = E_0 \hat{i} \cos(kz - \omega t)$ is incident normally on a perfectly reflecting infinite wall at $z = a$. Assuming that the material of the wall is optically inactive, the reflected wave will be given as

a)

$$E_r = -E_0 \hat{i} \cos(kz - \omega t)$$

b)

$$E_r = E_0 \hat{i} \cos(kz + \omega t)$$

c)

$$E_r = -E_0 \hat{i} \cos(kz + \omega t)$$

d)

$$E_r = E_0 \hat{i} \sin(kz - \omega t)$$

Answer:

b)

$$E_r = E_0 \hat{i} \cos(kz + \omega t)$$

8.3. Light with an energy flux of 20 W/cm² falls on a non-reflecting surface at normal incidence. If the surface has an area of 30cm², the total momentum delivered during 30 minutes is

- a) 36×10^{-6} kg m/s
- b) 36×10^{-4} kg m/s
- c) 108×10^4 kg m/s
- d) 1.08×10^7 kg m/s

Answer:

- b) 36×10^{-4} kg m/s

8.4. The electric field intensity produced by the radiations coming from 100 W bulb at a 3 m distance is E. The electric field intensity produced by the radiations coming from 50 W bulb at the same distance is

- a) E/2
- b) 2E
- c) E/ $\sqrt{2}$

Grade 12 2014 Physics Exemplar

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Table of Contents Grade 12 2014 Physics Exemplar

1. Understanding the eBook Grade 12 2014 Physics Exemplar
 - The Rise of Digital Reading Grade 12 2014 Physics Exemplar
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 12 2014 Physics Exemplar
 - 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 Grade 12 2014 Physics Exemplar
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 12 2014 Physics Exemplar
 - Personalized Recommendations
 - Grade 12 2014 Physics Exemplar User Reviews and Ratings
 - Grade 12 2014 Physics Exemplar and Bestseller Lists
5. Accessing Grade 12 2014 Physics Exemplar Free and Paid eBooks
 - Grade 12 2014 Physics Exemplar Public Domain eBooks
 - Grade 12 2014 Physics Exemplar eBook Subscription Services

- Grade 12 2014 Physics Exemplar Budget-Friendly Options
- 6. Navigating Grade 12 2014 Physics Exemplar eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 12 2014 Physics Exemplar Compatibility with Devices
 - Grade 12 2014 Physics Exemplar Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 12 2014 Physics Exemplar
 - Highlighting and Note-Taking Grade 12 2014 Physics Exemplar
 - Interactive Elements Grade 12 2014 Physics Exemplar
- 8. Staying Engaged with Grade 12 2014 Physics Exemplar
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 12 2014 Physics Exemplar
- 9. Balancing eBooks and Physical Books Grade 12 2014 Physics Exemplar
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 12 2014 Physics Exemplar
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 12 2014 Physics Exemplar
 - Setting Reading Goals Grade 12 2014 Physics Exemplar
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 12 2014 Physics Exemplar
 - Fact-Checking eBook Content of Grade 12 2014 Physics Exemplar
 - 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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