

Questions in Quantum Physics — Assignment

Name: Bernard Lim Wei Shun, Group No. EE01, Date: 11/4/2020

(Submit your solutions to all four questions to your tutor in Week 12)

1. The visible intensity threshold of a night-vision device is $(4.0 \times 10^{-13} \text{ W/m}^2)$ at the wavelength of (600 nm) . If the light with this intensity and wavelength enters an eye and the pupil is open to its maximum diameter of 8.5 mm , how many photons per second enter the eye? (25 Marks)

$$I = 4 \times 10^{-13}$$

$$\begin{aligned} \text{Surface Area} &= \pi r^2 \\ &= \pi \times \left(\frac{8.5 \times 10^{-3}}{2}\right)^2 \\ &= 5.6745017 \times 10^{-6} \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{Energy} &= \frac{hc}{\lambda} = \frac{6.63 \times 10^{-34} \times 3 \times 10^8}{600 \times 10^{-9}} \\ &= 3.315 \times 10^{-19} \text{ J} \end{aligned}$$

$$\text{Power} = \text{Intensity} \times \text{Surface Area} \quad (25 \text{ Marks})$$

$$= 5.1745017 \times 10^{-13} \times 4 \times 10^{-6}$$

$$= 2.0698 \times 10^{-18} \text{ W}$$

$$\text{number of photons (s}^{-1}\text{)}$$

$$\Rightarrow \frac{2.0698 \times 10^{-18}}{3.315 \times 10^{-19}} = 624.37 \text{ s}^{-1}$$

~~2.0698~~ 624.37 photons per second

2. A 0.6 MeV photon is scattered by a free electron initially at rest. After scattering, the scattering angle of the scattered photon is 90° .

- (i) Determine the energy and the momentum of the scattered photon.
(ii) Determine the kinetic energy of the scattered electron.

(i) Compton Effect Equation: \rightarrow Scatter at 90° since normal

$$\lambda' - \lambda_0 = \frac{h}{mc} (1 - \cos \theta) \quad p = \frac{h}{\lambda}$$

$$\lambda' = \frac{h}{mc} (1 - \cos 90^\circ) + \lambda_0$$

$$\theta = 90^\circ \quad \lambda_0 = \frac{hc}{E} = \frac{6.63 \times 10^{-34} \times 3 \times 10^8}{0.6 \times 10^6 \times 1.6 \times 10^{19}} = 2.0719 \times 10^{-12} \text{ m}$$



$$\lambda' = \frac{6.63 \times 10^{-34}}{9.1 \times 10^{-31} \times 3 \times 10^8} + 2.0719 \times 10^{-12}$$

$$= 4.4978 \times 10^{-12}$$

(25 marks)

$$p' = \frac{6.63 \times 10^{-34}}{4.4978 \times 10^{-12}}$$

$$= 1.474 \times 10^{-22} \text{ kg m s}^{-1}$$

$$E' = \frac{hc}{\lambda'}$$

$$= \frac{6.63 \times 10^{-34} \times 3 \times 10^8}{4.4978 \times 10^{-12}}$$

$$= 4.442 \times 10^{-14} \text{ J}$$

$$= 276.35 \text{ eV} = 0.276 \text{ MeV}$$

(ii) Kinetic energy

$$= \text{Difference in energy} = 0.6 \text{ MeV} - 0.276 \text{ MeV}$$

$$= 0.324 \text{ MeV}$$

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Table of Contents Physics 12 Assignment Quantum Physics

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

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