

SHORT NOTES :-

$$\Rightarrow \boxed{E = h\nu} \quad \boxed{c = \nu\lambda}$$

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$$\boxed{P = \frac{E}{c}} \quad \boxed{\lambda = \frac{h}{P}}$$

$$\frac{1}{2}mv^2 = eV \rightarrow \therefore \boxed{v = \sqrt{\frac{2eV}{m}}}$$

$$\boxed{\lambda = \frac{h}{\sqrt{2me}} = \frac{h}{\sqrt{2meV}} = \frac{h}{\sqrt{3mk_B T}}}$$

$$\boxed{mv\lambda = \frac{nh}{2\pi} \quad \text{or} \quad P\lambda = \frac{nh}{2\pi} \quad \text{or} \quad \lambda = \frac{nh}{2\pi}}$$

$$\boxed{D \sin \phi = n\lambda} \quad \text{--- } (\phi = \text{diffraction angle, } D = \text{distance b/w atoms})$$

$$\Rightarrow \text{HUP :- } \boxed{\begin{array}{l} \Delta x \Delta k \sim 1 \\ \Delta P \Delta x \sim \hbar \\ \Delta E \Delta t \sim \hbar \\ \Delta J \Delta \theta \sim \hbar \end{array}} \quad \boxed{\Delta k = \frac{\Delta P \hbar}{\hbar}}$$

$$\Rightarrow E = \sqrt{(mc^2)^2 + (Pc)^2} \rightarrow \therefore \boxed{E = Pc} \quad \text{--- } (mc^2 \ll Pc)$$

$$\Rightarrow \text{single slit diffraction} \rightarrow \boxed{(\Delta x)(\Delta P \hbar) \sim \hbar} \quad \text{not } \hbar$$

$$\Rightarrow \text{Norm. Wave eqn: } P = |\Psi|^2 \frac{\partial \omega}{\partial k}$$

$$\Rightarrow \boxed{E = h\nu = \hbar\omega} \quad \boxed{V_p = \frac{\omega}{k}} \quad \boxed{V_p = \frac{E}{P}} \quad \boxed{V_g = \frac{d\omega}{dk}}$$

group velocity

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**Atmajan A./ Issac Tessy/ Manoj Abin &
Pisharady, Sreejith K.**

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Reviewing **1st Year Engineering Physics Notes**: Unlocking the Spellbinding Force of Linguistics

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Table of Contents 1st Year Engineering Physics Notes

1. Understanding the eBook 1st Year Engineering Physics Notes
 - The Rise of Digital Reading 1st Year Engineering Physics Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying 1st Year Engineering Physics Notes
 - 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 1st Year Engineering Physics Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from 1st Year Engineering Physics Notes
 - Personalized Recommendations
 - 1st Year Engineering Physics Notes User Reviews and Ratings
 - 1st Year Engineering Physics Notes and Bestseller Lists

5. Accessing 1st Year Engineering Physics Notes Free and Paid eBooks
 - 1st Year Engineering Physics Notes Public Domain eBooks
 - 1st Year Engineering Physics Notes eBook Subscription Services
 - 1st Year Engineering Physics Notes Budget-Friendly Options
6. Navigating 1st Year Engineering Physics Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - 1st Year Engineering Physics Notes Compatibility with Devices
 - 1st Year Engineering Physics Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 1st Year Engineering Physics Notes
 - Highlighting and Note-Taking 1st Year Engineering Physics Notes
 - Interactive Elements 1st Year Engineering Physics Notes
8. Staying Engaged with 1st Year Engineering Physics Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 1st Year Engineering Physics Notes
9. Balancing eBooks and Physical Books 1st Year Engineering Physics Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 1st Year Engineering Physics Notes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 1st Year Engineering Physics Notes
 - Setting Reading Goals 1st Year Engineering Physics Notes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 1st Year Engineering Physics Notes
 - Fact-Checking eBook Content of 1st Year Engineering Physics Notes
 - 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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