

SHORT NOTES :-

$\Rightarrow E = h\nu$ $c = \nu\lambda$

$P = \frac{E}{c}$ $\lambda = \frac{h}{p}$

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

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

$mvr = \frac{nh}{2\pi}$ or $Pr = \frac{nh}{2\pi}$ or $r = n\lambda$

$D \sin \phi = n\lambda$ --- (ϕ = diffraction angle,
 D = distance b/w atoms)

\Rightarrow HUP :- $\Delta x \Delta k \sim 1$ $\Delta k = \frac{\Delta p_x}{\hbar}$
 $\Delta p \Delta x \sim \hbar$
 $\Delta E \Delta t \sim \hbar$
 $\Delta J \Delta \theta \sim \hbar$

$\Rightarrow E = \sqrt{(mc^2)^2 + (pc)^2} \rightarrow \therefore E = pc$ --- ($mc^2 \ll pc$)

\Rightarrow single slit diffraction $\rightarrow (\Delta x)(\Delta p_x) \sim \hbar$ not \hbar

\Rightarrow Norm. wave eqⁿ : $P = |\psi|^2 dx dy dz$

\Rightarrow $E = h\nu = \hbar\omega$ $v_p = \frac{\omega}{k}$ $v_p = \frac{E}{p}$ $v_g = \frac{d\omega}{dk}$

$P = \hbar k$

group velocity

Engineering Physics Notes For 1st Year Student

SJ Ball



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Table of Contents Engineering Physics Notes For 1st Year Student

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

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

- 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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