

SHORT NOTES :-

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

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

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

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

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

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

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

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

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

$$\Rightarrow \text{Norm. wave eqn: } p = |\psi|^2 \frac{\partial \psi}{\partial x}$$

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

$$\boxed{p = \hbar k}$$

group velocity

1st Year Engineering Physics Notes Semester

Christian Drosten



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The Sibley Journal of Engineering , 1916 **Suggested Programs of Study in Business Administration** University of Michigan. College of Literature, Science, and the Arts, 1910 *Engineering Education* , 1990 **Carved from Granite** Lance Betros, 2012-04-23 The United States Military Academy at West Point is one of America's oldest and most revered institutions. Founded in 1802, its first and only mission is to prepare young men and since 1976 young women to be leaders of character for service as commissioned officers in the United States Army. West Point's success in accomplishing that mission has secured its reputation as the foremost leadership development institution in the world. An Academy promotional poster says it this way: At West Point, much of the history we teach was made by people we taught. Carved from Granite is the story of how West Point goes about producing military leaders of character. An opening chapter on the Academy's nineteenth century history provides context for the topic of each subsequent chapter. As scholar and Academy graduate Lance Betros shows, West Point's early history is interesting and colorful, but its history since then is far more relevant to the issues and problems that face the Academy today. Drawing from oral histories, archival sources, and his own experiences as a cadet and later a faculty member, Betros describes and assesses how well West Point has accomplished its mission. And while West Point is an impressive institution in many ways, Betros does not hesitate to expose problems and challenge long-held assumptions. In a concluding chapter that is both subjective and interpretive, the author offers his prescriptions for improving the institution, focusing particularly on the areas of governance, admissions, and intercollegiate athletics. Photographs, tables, charts, and other graphics aid the clarity of the discussion and lend visual and historical interest. Carved from Granite: West Point since 1902 is the most authoritative history of the modern United States Military Academy written to date. There will be lively debate over some of the observations made in this book, but if they are followed, the author asserts that the Academy will emerge stronger and better able to accomplish its vital mission in the new century and beyond. Community College PreMed Classes: Pre-Nursing, Pre-Pharmacy, and Pre-Med Requirements Tony Guerra, 2017-05-12 The road to professional school is confusing and expensive. By going to community college, it's possible to save a significant amount of money on your road to a health career. This book outlines the benefits of completing your pre-professional course requirements at a community college. Includes advice regarding coursework, the professional entrance exam, and interview for pre-nursing, pre-pharmacy, and pre-med students. El camino hacia el colegio profesional es confuso y costoso. Al ir a la universidad de la comunidad, es posible ahorrar una cantidad significativa de dinero en su camino a una carrera de salud. Este libro describe los

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menghambat arus listrik dari arah lainnya reverse bias