

SHORT NOTES :-

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

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

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

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

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

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

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

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

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

$\Rightarrow$  Norm. wave eq<sup>n</sup>:  $P = |\psi|^2 dx dy dz$

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

$P = \hbar k$

group velocity

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**Rachel Sandford**



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