

SHORT NOTES :-

$$\rightarrow [E = h\nu]$$

$$c = \nu\lambda$$

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$$P = \frac{E}{c}$$

$$\lambda = \frac{h}{P}$$

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

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

$$mvx = nh \quad \text{or} \quad P\phi = nh \quad \text{or} \quad \frac{v}{2\pi} = \frac{nh}{2\pi}$$

$$\text{Using } \phi = n\lambda$$

( $\phi$  - diffraction angle,  
 $D$  - distance b/w atoms)

$\rightarrow$

HUP :-

$$\begin{aligned} \Delta x \Delta k &\sim 1 \\ \Delta p \Delta x &\sim h \\ \Delta E \Delta t &\sim h \\ \Delta J \Delta \theta &\sim h \end{aligned}$$

$$\Delta k = \frac{\Delta p_n}{h}$$

$\rightarrow$

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

$\rightarrow$

$$\text{single slit diffraction} \rightarrow (2\pi)(\Delta p_n) \propto h \quad \text{not to}$$

$\rightarrow$

$$\text{Norm. wave eqn: } P = 14T^2 \text{ dadycle}$$

$\rightarrow$

$$[E = h\nu = \hbar\omega]$$

$$[V_p = \frac{\omega}{k}]$$

$$[V_p = \frac{E}{P}]$$

$$[V_g = \frac{\partial \omega}{\partial k}]$$

$$[P = \hbar k]$$

group  
velocity

# 1st Year Engineering Physics Notes

**Rhode Island. Board of Education**

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