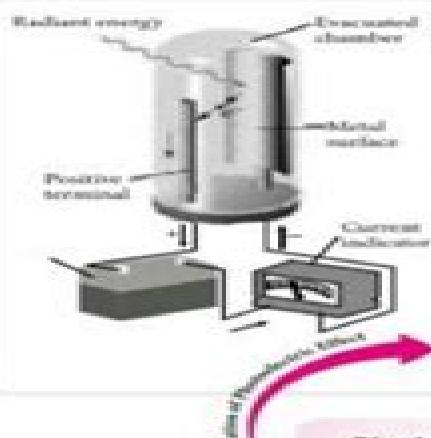


QUANTUM THEORY OF LIGHT

BRAIN MAP CLASS XII



Photoelectric Cell

- An electrical device which converts light energy into electrical energy, is called as photocell or photoelectric cell.
- It works on the principle of photo-electric emission of electrons.

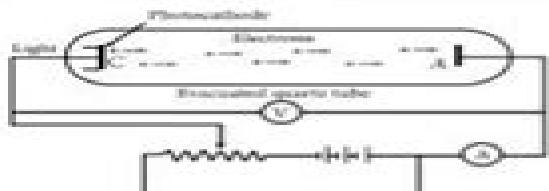


Photoelectric Effect

- The phenomenon of emission of electrons from a metal surface when an electromagnetic wave of suitable frequency is incident on it is called photoelectric effect.

Photoelectric Equation

- $E = K_{\max} + \phi_0$
where ϕ_0 = work function of metal,
 E = energy of incident light,
 K_{\max} = maximum kinetic energy of electrons
- $\frac{1}{2}mv_{\max}^2 = h(v - v_0) = hc\left(\frac{1}{\lambda} - \frac{1}{\lambda_0}\right)$
where, $\lambda_0 = \frac{hc}{\phi_0}$ = threshold wavelength



Basic Quantum Theory of Light

- According to Planck, the energy of a photon, $E = \hbar\nu$;

$$E = \hbar\nu = \frac{hc}{\lambda} = \frac{1240}{\lambda(\text{in nm})} \text{ eV}$$
- Momentum of photons, $p = \frac{E}{c} = \frac{hc}{c} = \frac{h}{\lambda}$
- If source is 100% efficient, then the number of photons emitted per second by the source can be given by

$$\text{Power of source} = \frac{P}{E} = \frac{P}{\hbar\nu} = \frac{PA}{hc}$$
- The energy crossing per unit area per unit time perpendicular to the direction of propagation is called the intensity of a wave.
 $I = E/A = P/A$
- Force exerted on perfectly reflecting surface

$$F = \frac{\Delta P}{t} = \frac{2Nh}{t\lambda} = n\left(\frac{2h}{\lambda}\right) = \frac{2P}{c}$$

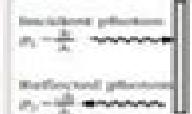
 $\text{Pressure} = \frac{F}{A} = \frac{2P}{cA} = \frac{2I}{c}$
- Force exerted on perfectly absorbing surface

$$F = \frac{\Delta P}{t} = \frac{Nh}{t\lambda} = n\left(\frac{h}{\lambda}\right) = \frac{P}{c}$$

 $\text{Pressure} = \frac{F}{A} = \frac{P}{cA} = \frac{I}{c}$
- When a beam of light is incident at an angle θ on perfectly reflector surface then force exerted on the surface,

$$F = \frac{2P}{c} \cos\theta = \frac{2I}{c} \cos\theta$$

 $\text{Pressure} = \frac{2I}{cA} \cos\theta$

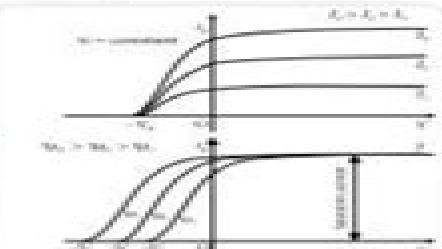


PARTICLE NATURE OF RADIATION

Conclusions of Experimental Study of Photoelectric Effect

- Photo-current is directly proportional to the intensity of incident light, i.e., $I_p \propto I$.
(At constant frequency v and potential V)
- At constant frequency and intensity, the minimum negative potential at which the photocurrent becomes zero is called stopping potential (V_0).
- At stopping potential V_0 , $K_{\max} = eV_0$
- For a given frequency of the incident radiation, the stopping potential is independent of its intensity.
- The stopping potential varies linearly with the frequency of incident radiation but saturation current value remains constant for a fixed intensity of incident radiation.

- Quantum efficiency = $\frac{n_e}{n_{ph}}$
 n_e = number of electron emitted per second
 n_{ph} = total number of photon incident per second



Study Guide Quantum Theory

**Peter Atkins, John Krenos, Joseph
Potenza**

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