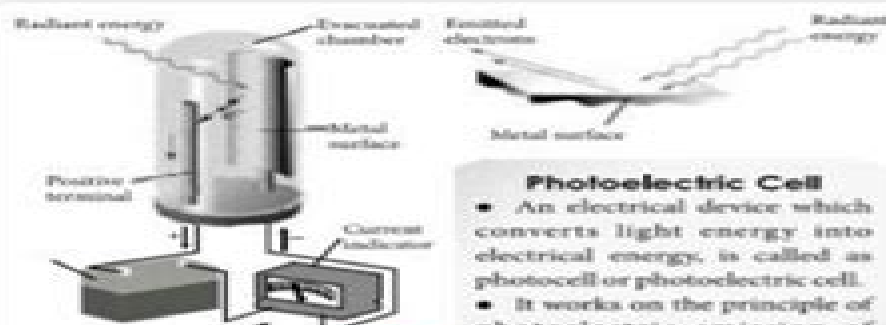


QUANTUM THEORY OF LIGHT

**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.

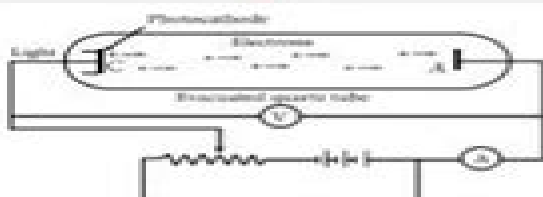
Photo-electric Effect

- 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
- $\frac{1}{2}mv_{\max}^2 = h\nu - \phi_0 = hc\left(\frac{1}{\lambda} - \frac{1}{\lambda_0}\right)$
where, $\lambda_0 = \frac{hc}{\phi_0}$ = threshold wavelength



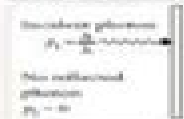
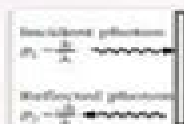
PARTICLE NATURE OF RADIATION

Basic Quantum Theory of Light

- According to Planck, the energy of a photon, $E = h\nu$;
$$E = h\nu = \frac{hc}{\lambda} = \frac{1240}{\lambda(\text{in nm})} \text{ eV}$$
- Momentum of photon, $p = \frac{E}{c} = \frac{h\nu}{c} = \frac{h}{\lambda}$
- If source is 100% efficient, then the number of photons emitted per second by the source can be given by
$$n = \frac{\text{Power of source}}{\text{Energy of photon}} = \frac{P}{E} = \frac{P}{h\nu} = \frac{PA}{hc}$$
- The energy crossing per unit area per unit time perpendicular to the direction of propagation is called the intensity of a wave.
 $I = E/At = P/A$
- Force exerted on perfectly reflecting surface
$$F = \frac{\Delta p}{t} = \frac{2N\hbar}{t\lambda} = n\left(\frac{2\hbar}{\lambda}\right) = \frac{2P}{c}$$

$$\text{Pressure} = \frac{F}{A} = \frac{2P}{cA} = \frac{2I}{c}$$
- Force exerted on perfectly absorbing surface
$$F = \frac{\Delta p}{t} = \frac{N\hbar}{t\lambda} = n\left(\frac{\hbar}{\lambda}\right) = \frac{P}{c}$$

$$\text{Pressure} = \frac{F}{A} = \frac{P}{cA} = \frac{I}{c}$$



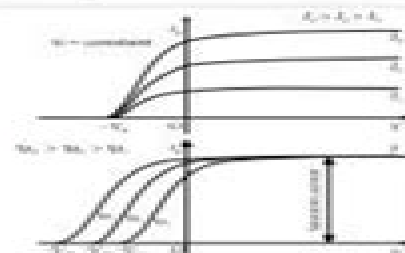
- When a beam of light is incident at an angle θ on perfectly reflector surface then force exerted on the surface,
$$F = \frac{2P}{c} \cos \theta = \frac{2IA \cos \theta}{c}$$

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

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 ν 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



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LP Steffe



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Book Review Digest, 1928 *Philosophy of Physics* Jeremy Butterfield, John Earman, 2007 The ambition of this volume is twofold to provide a comprehensive overview of the field and to serve as an indispensable reference work for anyone who wants to work in it For example any philosopher who hopes to make a contribution to the topic of the classical quantum correspondence will have to begin by consulting Klaas Landsman's chapter The organization of this volume as well as the choice of topics is based on the conviction that the important problems in the philosophy of physics arise from studying the foundations of the fundamental theories of physics It follows that there is no sharp line to be drawn between philosophy of physics and physics itself Some of the best work in the philosophy of physics is being done by physicists as witnessed by the fact that several of the contributors to the volume are theoretical physicists viz Ellis Emch Harvey Landsman Rovelli t Hooft the last of whom is a Nobel laureate Key features Definitive discussions of the philosophical implications of modern physics Masterly expositions of the fundamental theories of modern physics Covers all three main pillars of modern physics relativity theory quantum theory and thermal physics Covers the new sciences grown from these theories for example cosmology from relativity theory and quantum information and quantum computing from quantum theory Contains special Chapters that address crucial topics that arise in several different theories such as symmetry and determinism Written by very distinguished theoretical physicists including a Nobel Laureate as well as by philosophers Definitive discussions of the philosophical implications of modern physics Masterly expositions of the fundamental theories of modern physics Covers all three main pillars of modern physics relativity theory quantum theory and thermal physics Covers the new sciences that have grown from these theories for example cosmology from relativity theory and quantum information and quantum computing from quantum theory Contains special Chapters that address crucial topics that arise in several different theories such as symmetry and determinism Written by very distinguished theoretical physicists including a Nobel Laureate as well as by philosophers Nuclear Science Abstracts, 1976 *Saunders Comprehensive Review for the NCLEX-RN Examination* Linda Anne Silvestri, 2011 Accompanying CD ROM includes more than 4500 NCLEX examination style review questions in quiz study or exam mode a diagnostic pre test audio and video questions and audio review summaries **Saunders Comprehensive Review for the NCLEX-RN® Examination - E-Book** Linda Anne Silvestri, 2010-10-12 This title includes additional digital media when purchased in print format For this digital book edition media content is not included

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