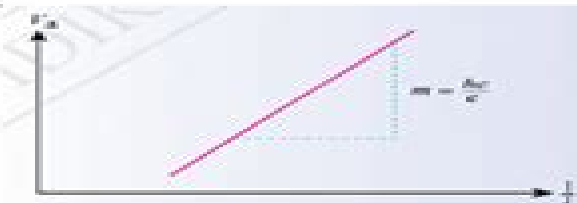
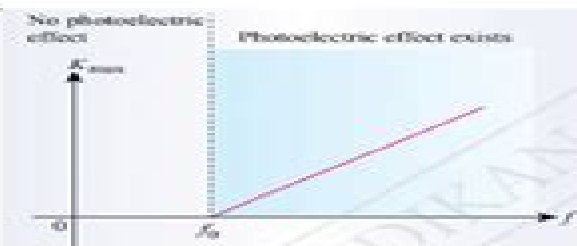


PHYSICS F5 / CHAP 7 : QUANTUM PHYSICS

1	Photon energy	$E = hf$ or $E = \frac{hc}{\lambda}$ E = photon energy h = Planck's constant ($6.63 \times 10^{-34} \text{ Js}$) f = frequency of light waves c = light speed = $3 \times 10^8 \text{ ms}^{-1}$
2	Wavelength de Broglie	$\lambda = \frac{h}{p}$ λ = wave length h = Planck's constant p = momentum of particle ($p = mv$)
3	Wavelength	$\lambda = \frac{h}{mv}$ m = mass of particle v = velocity of particle
4	Photon power	$P = nhf$ or $P = \frac{nhc}{\lambda}$ n = n photon emitted per second
5		Graph activation voltage, V_a against $\frac{1}{\lambda}$ Gradient, $m = \frac{hc}{e}$ Planck's constant, $h = \frac{me}{c}$ e = charge of an electron ($1.60 \times 10^{-19} \text{ C}$) c = speed of light in vacuum ($3.00 \times 10^8 \text{ ms}^{-1}$)
6	Einstein's photoelectric equation	Photon energy = minimum energy required to release a photoelectron + maximum kinetic energy of a photoelectron $E = W + K_{\max}$ $hf = W + \frac{1}{2}mv^2$ $\frac{1}{2}mv^2 = hf - W$ or $hf = W + \frac{1}{2}mv^2$
		$\frac{1}{2}mv_{\max}^2 = 0$ $0 = hf_0 - W$ $W = hf_0$ $\frac{1}{2}mv_{\max}^2 = hf - W$ $\frac{1}{2}mv_{\max}^2 = hf - hf_0$ $\frac{1}{2}mv_{\max}^2 = h(h - f_0)$
7	Work function	$W = hf_0 = \frac{hc}{\lambda}$
8	1 eV	$1 \text{ eV} = 1.6 \times 10^{-19} \text{ J}$
9	Mass of electron	$m_e = 9.11 \times 10^{-31} \text{ kg}$
10	Planck's constant	$h = 6.63 \times 10^{-34} \text{ Js}$
11	Wavelength	$K = \frac{1}{2}mv^2 \times \frac{m}{m} \rightarrow K = \frac{(mv)^2}{2m} = \frac{p^2}{2m}$ Which $p = mv$

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