CAMBRIDGE WIZARD KEY CARDS

# KEY CONCEPTS AND FORMULAS FOR VCE UNITS 3

# PHYSICS 4

## WAVE Properties of Light:

**Reflection** – light bends towards the normal and the distance between waves decreases when velocity decreases.

**Diffraction** – the bending of the direction of travel of light after passing through a gap or around an obstacle to produce dark and bright areas.

Amount of diffraction ∝ $\frac{\lambda}{w}$

$w$ – width of the gap or obstacle (m)

**Interference** – Young's double slit experiment produces a series of bright and dark areas depending on the path difference.

**Dark areas are nodes** – destructive interference occurs as out of phase.

Path difference = $0, \frac{\lambda}{2}, \frac{3\lambda}{2}, \frac{5\lambda}{2}, \ldots$

**Bright areas are antinodes** – constructive interference occurs as in phase.

Path difference = $0, \lambda, 2\lambda, \ldots$

$w$ – the distance (m) between two dark or bright areas

$\lambda = \frac{\Delta x \, w}{D}$ ($m = 0$)

$D$ – distance (m) between screen and slits

$\Delta x$ – distance (m) between slits

## PARTICLE Properties of Light:

**Photoelectric effect (Einstein)** – ejection of electrons from a metal surface when light of a frequency greater than a threshold frequency ($f_0$) strikes it

$E_{ph} = hf = \frac{hc}{\lambda}$

$N$ – no. of photons

$h$ – Planck's constant ($6.63 \times 10^{-34}$ J·s or $4.14 \times 10^{-15}$ eV·s)

$W = hf_0$

$W$ – work function of an $e^-$ (J) is different for every metal

Ejected photoelectrons have a maximum kinetic energy:

$E_{k(max)} = hf - W = \frac{1}{2}mv_{max}^2 = eV_s$

$V_s = \frac{hf - W}{e}$

$e$ – charge on an electron ($1.6 \times 10^{-19}$ C)

$V_s$ – Stopping voltage (V) where no photoelectrons reach anode in photoelectric cell

**Momentum**: Photons can exert force despite no mass as have momentum.

$p = \frac{h}{\lambda} = \frac{E}{c} = \frac{hf}{c}$ $\quad F = \frac{\Delta(mv)}{\Delta t}$

## De Broglie Wavelength:

$\lambda = \frac{h}{mv} = \frac{h}{p}$ $\quad \lambda = \text{wavelength}, f = \text{frequency}, v = \text{velocity}$

Waves are only seen if $w$ and $\lambda$ are small and $\lambda$ is large.

Electrons have stable orbits as their orbit circumference = whole no. of $\lambda$.

## Energy levels

Electrons in atoms occupy energy levels which they can jump between. If

1. Electron and photon: photon emitted with energy = difference in energy levels.
2. Electron and photon: photon absorbed with energy = difference in energy levels.
3. Electron and photon absorbed with energy ≥ energy needed to ionise. The emitted electron carries extra energy away.

$hf = hf + E_k - E_i$ $\quad E_i$ and $E_k$ – different energy levels (J)

## Electric Fields

| | Charge (C) | Mass (kg) |
|---|---|---|
| Proton | $+1.6 \times 10^{-19}$ | $1.67 \times 10^{-27}$ |
| Electron | $-1.6 \times 10^{-19}$ | $9.11 \times 10^{-31}$ |

$E = \frac{F}{q} = \frac{\Delta V}{d}$ (Between parallel plates)

$E$ – electric field strength (N/C or V/m)

$q$ – unit positive charge (C)

$\Delta V$ – voltage across plates (V)

$d$ – distance between plates (m)

$F$ – force (N) on electric field

$a = \frac{F_{net}}{m} = \frac{Eq_{net}}{m}$ $\quad a$ – acceleration (m/s²) of charged particle in electric field

$\Delta K = \Delta E_p = -\Delta E_k = q\Delta V = q\Delta Ed$

$W$ – work (J) on a charged particle in an electric field – $1eV = 1.6 \times 10^{-19}$ J

$d$ – distance (m) moved parallel to field

$E$ – electric field strength

A beam of electrons moving at right angles through a uniform electric field moves in a parabolic path (eg. oscilloscope)

$F_B$ – force (N) on magnetic field $\quad F_B = qvB$

$B$ – field strength (T)

$v$ – particle velocity (m/s)

$E$ – electric field strength $\quad v = \frac{E}{B}$

# STRUCTURES AND MATERIALS

**Elastic**: returns to original shape when deformation (energy returned as $E_k$)

**Plastic**: deformation is permanent (energy used to deform)

**Hooke's law**: $F = -kx$

$k$ – force constant (N/m) which measures stiffness

$x$ – extension (m)

Proportional limit point on F vs. $x$ graph where F and $x$ no longer proportional

Elastic limit point after which deformation permanent

Strain energy = $\frac{1}{2}kx^2 = \frac{1}{2}F\Delta x$ = area under F vs. $x$ graph

$\sigma$ – **Stress** (Nm⁻² or Pa) – load force ($F$) per cross-sectional unit area ($A$)

$\sigma = \frac{F}{A}$

**Tensile/Compressive strength**: tensile and compressional stress respectively at point of failure, fracture or breaking.

**Shear stress**: a force on a material causes adjacent sections to slide across each other.

$\varepsilon$ – **Strain** – extension or compression per unit length (expressed as a percentage or decimal number)

$\varepsilon = \frac{\Delta L}{L}$ $\quad L$ – initial length (m)

$E$ – **Young's Modulus** (Nm⁻²) – stress per unit strain; the stiffness of the material or gradient of stress/strain

$E = \frac{\sigma_2 - \sigma_1}{\varepsilon_2 - \varepsilon_1} = \frac{\text{gradient of stress}}{\text{strain graph}}$

**Strain energy**: work ($E$) done to change the length of a material. Area under F vs. $\Delta x$ graph is the strain energy ($E$) released.

The area under a stress vs. strain graph is the strain energy per unit volume (Jm⁻³).

**Ductile**: small amount of plastic deformation (eg. steel)

**Tough**: ability to absorb strain energy. Toughness is measured by area beneath stress vs. strain graph.

**Strength**: determined by maximum stress before fracture.

**Centre of Mass** ($x_c$): point used to simplify motion of a body.

$x_c = \frac{(m_1 x_1 + m_2 x_2 + m_3 x_3 + \ldots)}{(m_1 + m_2 + m_3 + \ldots)}$

$x_n$ – distance of mass $n$ (kg) from one end. Particularly occurs if centre of mass is not above the base of support.

$\tau$ – **Torque** (Nm) – a turning effect dependent on the perpendicular force ($F_\perp$) and the distance ($r$) it is applied from the axis of rotation.

$\tau = rF$

**Translational equilibrium**: when all forces acting on an object sum to zero.

The object can be at rest or moving with constant speed.

$\Sigma F = 0$ $\quad$ So $F_1 = F_2$ $\quad$ and $F_{up} = F_{down}$

**Rotational equilibrium**: when all torques acting turn to zero.

$\Sigma \tau = 0$ $\quad$ So $\tau_{clockwise} = \tau_{anticlockwise}$

**Stable**: when in rotational and translational equilibrium.

**Cantilever**: beam supported part its support structure

**Arch/Keystone**: all stones are under compression

**Concrete**: strong under compression, weak under tension

**Reinforced concrete**: contains steel rods (strong under tension) so it is strong under compression and tension

**Pre-stressed concrete**: under compression when formed. This means when it undergoes tension it is stronger as it is actually just less compressed.

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