

Wave Properties of Light:
Reflection – light bounces towards the normal and the distance between waves decreases when velocity decreases.
Refraction – the bending of the direction of travel of light after passing through a gap or around an obstacle to produce dark and bright areas.

Angle of refraction = i vs r
 i – width of the gap or obstacle (or 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 all out of phase.

Path difference = $n\lambda$, $2n\lambda$, $3n\lambda$...
 Bright areas are **antinodes** – constructive interference occurs in phase.

Path difference = $n\lambda/2$, $3\lambda/2$...
 n – the distance (or distance here) dark or bright areas.

$n\lambda/4 = 2n\lambda/4$ (if $i = 0$)
 i – incident ray between normal and side
 r – distance (or distance here) side

PARTICLE Properties of Light:
 Photoelectric effect observed – spectra of electrons from a metal surface when light of a frequency greater than a threshold frequency (f_0) strikes it.

$E_{\text{photon}} = hf = E_{\text{work}} + KE_{\text{max}}$
 h – Planck's constant
 f – frequency of light
 E_{work} – work function of metal
 KE_{max} – maximum kinetic energy of electrons
 $h = 6.63 \times 10^{-34} \text{ J s}$

h – work function of an α or β is different for every metal.
 Ejected photoelectrons have a maximum kinetic energy.

$E_{\text{photon}} = hf = W_0 + eV_s$
 W_0 – work function
 eV_s – stopping voltage (V) where no photoelectrons reach anode in photoelectric cell.

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Maximum – Photons can impart their energy to metal as free electrons.
 $E = \frac{hc}{\lambda} = \frac{hc}{\lambda_0} + eV_s$
 $E = \frac{hc}{\lambda_0}$

De Broglie Wavelength:
 $\lambda = \frac{h}{mv} = \frac{h}{p}$
 h – Planck's constant
 m – mass of particle
 v – velocity of particle
 p – momentum of particle
 λ – wavelength of particle

Energy levels:
 Electrons in atoms occupy energy levels, which they can jump between.
 1. Electrons drop levels, photon emitted with energy = difference in energy levels.
 2. Electrons absorb levels, photon absorbed with energy = difference in energy levels.
 3. Electron absorbs photon absorbed with energy \geq energy needed to ionise. The emitted electron carries extra energy away.
 $E_f - E_i = hf = hc/\lambda$ f and λ – different energy levels (f)

Electric Fields:
 Positive Charge (+) Mass (kg)
 Negative Charge (-) Mass (kg)
 $E = \frac{F}{q} = \frac{kQq}{r^2}$ (between parallel plates)

$E = \frac{V}{d}$ (electric field strength (V m⁻¹) or (N C⁻¹))
 q – unit positive charge (C)
 $k = 9 \times 10^9 \text{ N m}^2 \text{ C}^{-2}$ (Coulomb constant)
 d – distance between plates (m)
 Q – force (N) on electric field
 $E = \frac{F_{\text{net}}}{q} = \frac{m_e a}{q}$ a – acceleration (m s⁻²) of charged particle in electric field
 $E = \frac{F_{\text{net}}}{q} = \frac{m_e a}{q} = \frac{m_e v^2}{qr} = \frac{m_e v^2}{2qr}$

$W = qV$ (work (J) on a charged particle in an electric field) – $W = qV = \frac{1}{2}mv^2$
 d – distance (m) moved parallel to field
 q – electric field strength
 A beam of electrons moving at right angles through a uniform magnetic field moves in a circular path (no acceleration).
 $F_c = mv^2/r = qvB$
 $r = \frac{mv}{qB}$
 B – magnetic field strength

STRUCTURES AND MATERIALS

Elastic – returns to original shape after deformation (energy returned as E_p).
Plastic – deformation is permanent (energy used to deform).

Hooke's law: **$F = kx$**
 k – force constant (N) which measures stiffness
 x – extension (m)
 Proportional limit point on F vs x graph where F and x are longer proportional.
 Elastic limit point after which deformation permanent.

Stress (N m⁻²) = F/A (force per unit area)
Strain (unitless) = x/L (extension per unit length)
 $E = \frac{F/A}{x/L} = \frac{FL}{xA}$
 F – force (N)
 A – cross-sectional area (m²)
 x – extension (m)
 L – length (m)

Tensile/compressive strength, tensile and compressive stress respectively at point of failure. Fracture or breaking.
Shear stress – a torque in a material causes adjacent sections to slide across each other.

$E = \frac{W}{V}$ (strain energy per unit volume)
 $E = \frac{1}{2} \times \text{stress} \times \text{strain}$
 $E = \frac{1}{2} \times \frac{F}{A} \times \frac{x}{L}$
 $E = \frac{1}{2} \times \frac{F^2}{k}$ (if F and x are proportional)

$E = \frac{1}{2} \times \text{Young's Modulus} \times \text{strain}^2$
 $E = \frac{1}{2} \times \frac{F}{A} \times \frac{x}{L}$
 $E = \frac{1}{2} \times \frac{F^2}{k}$
 $E = \frac{1}{2} \times \frac{F^2}{k}$
 $E = \frac{1}{2} \times \frac{F^2}{k}$

Strain energy – work done to change the length of a material.
 Area under F vs. x graph is the strain energy (J) whereas the area under a stress vs. strain graph is the strain energy per unit volume (J m⁻³).


Stiff – small amount of plastic deformation (no strain).
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 ($C.M.$) – point used to simplify motion of a body.

$C.M. = \frac{m_1x_1 + m_2x_2 + \dots + m_nx_n}{m_1 + m_2 + \dots + m_n}$
 x_1 – distance of mass 1 (m) from one end.
Stability – occurs if centre of mass is not above the base of support.
Torque (τ) – a turning effect dependent on the perpendicular force (F) and the distance (r) it is applied from the axis of rotation.
 $\tau = Fr$

Translational equilibrium – when all forces acting on an object sum to zero.
 The object can be at rest or moving with constant speed.
 $\sum F_x = 0$ **$\sum F_y = 0$** and **$\sum F_z = 0$**

Rotational equilibrium – when all torque acting sum to zero.
 $\sum \tau = 0$ or **$\sum F_{\perp} r = 0$**

Stable – when it rotational and translational equilibrium.



Collar – beam extending past its support structure.
Arch/Keystone – all stones are under compression.
Concrete – strong under compression, weak under tension.
Reinforced concrete – contains steel rods (tensile) to support under tension and tensile.
Pre-stressed concrete – under compression when formed. This means when it undergoes tension it is stronger as it is actually put into compression.

Vce Physics Key Card

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