

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.

$\Delta \text{Angle of refraction} = \Delta v$

v – 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.

$\Delta \text{Path difference} = n\lambda, 2n\lambda, 3n\lambda, \dots$

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

$\Delta \text{Path difference} = (n + \frac{1}{2})\lambda$

n – the distance (or distance half dark or bright areas)

$\Delta \theta = \frac{\Delta x}{L} \approx \frac{\Delta \theta}{\Delta x} L$

L – distance (or distance) between screen and slit
 x – distance (or distance) between slits

PARTICLE Properties of Light:

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

$E_{\text{photon}} = hf = hf_0 + KE_{\text{max}}$

h – Planck's constant

f – frequency of light or $f = c/\lambda$

KE_{max} – max. KE of electrons

W – work function of an (f_0) is different for every metal.
Ejected photoelectrons have a maximum kinetic energy.

$E_{\text{photon}} = hf = W + KE_{\text{max}} = W + eV_s$

$W = hf_0 = h\nu_0$

eV_s – change in an electron's E (eV) is different for every metal

V_s – stopping voltage (V) where no photoelectrons reach anode in photoelectric cell.



Maximum – photons can impart their energy to metal as their momentum.

$E = \frac{hc}{\lambda} = \frac{hc}{\lambda_0} + \frac{hc}{\lambda}$

$E = \frac{hc}{\lambda_0} + \frac{hc}{\lambda}$

De Broglie Wavelength:

$\lambda = \frac{h}{mv} = \frac{h}{p}$ or $f = \frac{c}{\lambda} = \frac{c}{h/p} = \frac{cp}{h}$

Photons are only seen if λ and v are small and h is large.

Electrons have stable orbits as their orbit circumference = whole no. of λ .

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 excited, photon absorbed with energy \geq energy needed to ionise. The excited electron carries extra energy away.

$E_2 - E_1 = h\nu = E_{\text{photon}}$ E_1 and E_2 – different energy levels (1)

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

$E = \frac{1}{2}mv^2 = \frac{1}{2}qV$ (between parallel plates)

E – electric field strength (V m⁻¹ or N C⁻¹)
 q – unit positive charge (C)

V – voltage across plates (V)

d – distance between plates (m)

E – force (N) on electric field

$E = \frac{F}{q} = \frac{ma}{q}$ a – acceleration (m s⁻²) of charged particle in electric field

$W = qV = \Delta E = q\Delta V = q\Delta \phi$

W – work (J) on a charged particle in an electric field – $W = qV = q\Delta \phi$

d – distance (or) 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 cathode ray).

$F_e = force (N)$ in magnetic field $F_e = qvB$

$F_m = field strength (T)$ $F_m = \frac{F_e}{q}$

v – particle velocity (m s⁻¹) $v = \frac{F_m}{B}$

B – electric field strength

STRUCTURES AND MATERIALS

Elastic – returns to original shape after deformation (energy returned as E).

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.

Area under F vs. x graph = $\frac{1}{2}kx^2 = \frac{1}{2}Fx$ (or $\frac{1}{2}FL$)
Extension (or) area under F vs. x graph

σ – Stress (N m⁻²) or F/A – load force (F) per area, perpendicular unit area (A)

$\epsilon = \frac{\Delta L}{L}$

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 – Stress – extension or compression (or unit length) expressed as a percentage or fractional quantity.

$E = \frac{FL}{A\Delta L}$ L – initial length (m)

E – Young's Modulus (N m⁻²) – stress per unit strain, the stiffness of the material independent of dimensions.

$E = \frac{F/A}{\Delta L/L} = FL/A\Delta L$ – Slope of stress-strain graph

Strain energy work done to change the length of a material.



Stiff – 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 (CM) – point used to simplify motion of a body.

$x_{CM} = \frac{m_1x_1 + m_2x_2 + \dots + m_nx_n}{m_1 + m_2 + \dots + m_n}$

x_1 – distance of mass 1 (m_1) from one end. Similarly, values of centre of mass is not above the base of support.

τ – Torque (Nm) – a turning effect dependent on the perpendicular force (F) and the distance (r) 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.

$\sum \tau_x = 0$ or $\sum \tau_{\text{clockwise}} = \sum \tau_{\text{anticlockwise}}$

Stable – when it rotational and translational equilibrium.



Collarless 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 just less compressed.

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