

**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.

$\Delta n = \text{Angle of refraction} - \Delta i$

$n$  – 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.

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

Bright areas are antinodes – constructive interference occurs in phase.

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

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

$\Delta n = \frac{m\lambda}{2} \Rightarrow \Delta i = \frac{m\lambda}{2d}$

$d$  – distance (or distance between slits and  $n$  – distance (or distance) slit

**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.

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

$h$  – Planck's constant

$f$  – frequency of light ( $f > f_0$ )

$KE_{\text{max}}$  – max. KE of electrons

$KE_{\text{max}}$  – max. kinetic energy of electrons for every metal.  
Ejected photoelectrons have a maximum kinetic energy.

$E_{\text{photon}} = hf = hf_0 + \frac{1}{2}mv_{\text{max}}^2 = eV_0$

$f_0 = \frac{eV_0}{h}$

$f$  – change in an electron's KE ( $f = \frac{1}{h} \Delta KE$ )

$V_0$  – stopping voltage (V) where no photoelectrons reach anode in photoelectric cell.



**Maximum** – photons can impart their energy to metal as free electrons.

$f = \frac{KE_{\text{max}}}{h} = \frac{eV_0}{h}$

$f = \frac{KE_{\text{max}}}{h} = \frac{eV_0}{h}$

**De Broglie Wavelength:**

$\lambda = \frac{h}{mv} = \frac{h}{p} \Rightarrow \lambda = \frac{h}{mv} = \frac{h}{p}$

Waves are only seen if  $\lambda$  and  $v$  are small and  $h$  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.

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

$E_2 - E_1 = hf = hc/\lambda$   $E_1$  and  $E_2$  – different energy levels (J)

**Electric Fields:**

Force	Charge (C)	Mass (kg)
Gravitational	$\pm q_1, \pm q_2$	$m_1, m_2$
Electric	$\pm q_1, \pm q_2$	$m_1, m_2$

$E = \frac{F}{Q} = \frac{kqQ}{r^2} = \frac{kQ}{r^2}$  (between parallel plates)

$E$  – electric field strength (V m<sup>-1</sup> or N C<sup>-1</sup>)

$q$  – unit positive charge (C)

$Q$  – voltage across plates (V)

$d$  – distance between plates (m)

$Q$  – force (N) on electric field

$E = \frac{F_{\text{net}}}{q} = \frac{m_0 a}{q}$   $a$  – acceleration (m s<sup>-2</sup>) of charged particle in electric field

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

$W$  – work (J) on a charged particle in an electric field –  $W = qV = qEd$

$d$  – 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).

$F_e = \text{force (N) in magnetic field}$   $F_e = qvB$

$q$  – field strength (T)

$v$  – particle velocity (m s<sup>-1</sup>)

$B$  – electric field strength

**STRUCTURES AND MATERIALS**

**Elastic** – returns to original shape after deformation (strain returned as 0).

**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<sup>-2</sup>) =  $\frac{F}{A}$   $F$  – force (N)  $A$  – area (m<sup>2</sup>)

Strain (m m<sup>-1</sup>) =  $\frac{\Delta L}{L_0}$   $\Delta L$  – extension (m)  $L_0$  – original length (m)

$E$  – **Stress** (N m<sup>-2</sup>) or  $F/A$  – load force (N) per area, perpendicular unit area (A)

$\Delta L$  – **Strain**

**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.

$E = \frac{F}{A} = \frac{FL}{AL_0}$   $L$  – total length (m)

$E$  – **Young's Modulus** (N m<sup>-2</sup>) – stress per unit strain, the stiffness of the material independent of dimensions.

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

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



the area under a stress vs. strain graph is the strain energy per unit volume (J m<sup>-3</sup>).

**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.

$CM = \frac{m_1 r_1 + m_2 r_2 + \dots + m_n r_n}{m_1 + m_2 + \dots + m_n}$

$r_i$  – distance of mass ( $m_i$ ) from one end. Arbitrarily choose if centre of mass is not above the base of support.

$\tau$  – **Torque** (Nm) – 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.

$\Sigma F_x = 0$   $\Sigma F_y = 0$  and  $\Sigma F_z = 0$

**Rotational equilibrium** – when all torque acting sum to zero.

$\Sigma \tau = 0$  or  $\Sigma F_{\perp} r = 0$

**Stable** – when it rotational and translational equilibrium.

$\Sigma \tau = 0$  or  $\Sigma F_{\perp} r = 0$

**Centre of Mass** ( $CM$ ) – point used to simplify motion of a body.

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**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 reinforce 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.

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