

**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 =  $i - n_2$**   
 $n_1$  – 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 **minima** – destructive interference occurs all out of phase.

**Path difference =  $n_2 \sin \theta$**   
 Bright areas are **antinodes** – constructive interference occurs in phase.

**Path difference =  $n_1 \lambda$**   
 $n_1$  – the distance (or distance half dark or bright areas)  
 $n_2 = \frac{v_2}{c}$  ( $n_1 = 1$ )

$v_1 =$  distance (or distance) between nodes and antinodes  
 $v_2 =$  distance (or distance) between nodes

**PARTICLE Properties of Light**  
**Photoelectric effect** – incident – 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  
 $f_0 =$  threshold frequency  
 $KE_{\text{max}} =$  maximum kinetic energy  
 $h = 6.63 \times 10^{-34} \text{ J s}$

$h\nu =$  work function of metal (or different for every metal)  
 Ejected photoelectrons have a maximum kinetic energy

$E_{\text{photon}} = hf = h\nu = \frac{hc}{\lambda} = \frac{hc}{\lambda_0} + KE_{\text{max}}$   
 $\lambda_0 =$  threshold wavelength

$h\nu =$  charge on an electron ( $e$ )  $\times$  V (or  $h\nu = eV_0$ )  
 $V_0 =$  stopping voltage (V) where no photoelectrons reach anode in photoelectric cell.



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

$E = \frac{hc}{\lambda} = \frac{hc}{\lambda_0} + \frac{1}{2}mv_{\text{max}}^2$        $E = \frac{hc}{\lambda_0}$

**De Broglie Wavelength**

$\lambda = \frac{h}{mv} = \frac{h}{p}$        $f = \frac{v}{\lambda} = \frac{v}{h/p} = \frac{pv}{h} = \frac{mv^2}{h}$   
 Photons are only seen if  $v$  is 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.  
 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 2 energy needed to ionise. The emitted electron carries extra energy away.  
 $E_2 - E_1 = hf = hc/\lambda$        $E_1$  and  $E_2$  – different energy levels (J)

**Electric Fields**

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

$E = \frac{F}{Q} = \frac{kQ_1Q_2}{r^2} = \frac{kQ_1}{r^2}$  (between parallel plates)

$E =$  electric field strength (V m<sup>-1</sup> or N C<sup>-1</sup>)  
 $q =$  unit positive charge (C)  
 $Q_1 =$  voltage across plates (V)  
 $d =$  distance between plates (m)  
 $E =$  force (N) on unit charge

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

$W = \Delta E = \Delta U = qV = qEd$

$W =$  work (J) on a charged particle in an electric field –  $W = qV = qEd$   
 $d =$  distance (m) moved parallel to field  
 $E =$  electric field strength

A beam of electrons moving at right angles through a uniform magnetic field moves in a circular path (eg cathode ray).

$F_c =$  force (N) in magnetic field       $F_c = qvB$   
 $F =$  field strength (T)  
 $v =$  particle velocity (m s<sup>-1</sup>)       $v = \frac{R}{B}$   
 $B =$  electric 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.

Force (N) =  $k$  (N m<sup>-1</sup>)  $\times$   $x$  (m)       $E = \frac{1}{2}kx^2$   
 Extension (m) and area (m<sup>2</sup>) in a graph

$\sigma =$  Stress (N m<sup>-2</sup>) or  $F/A =$  load force (F) per area (A) (total and 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.  
 $E = \frac{FL}{\Delta L A}$        $L =$  initial length (m)

$E =$  Young's Modulus (N m<sup>-2</sup>) = stress per unit strain, the stiffness of the material independent of dimensions.  
 $E = \frac{F/A}{\Delta L/L} = \frac{FL}{A\Delta L}$  = gradient of stress-strain graph.

**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<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** ( $C.M.$ ) – point used to simplify motion of a body.

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

$x_c =$  distance of mass 1 (m<sub>1</sub>) from end and similarly others 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.

$\sum F_x = 0$        $\sum F_y = 0$       and       $\sum F_{\text{net}} = 0$

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

$\sum \tau_x = 0$       or       $\sum \tau_{\text{net}} = 0$

**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.

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