

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 that) of light waves.

$n\lambda = \frac{r_2^2 - r_1^2}{2\lambda}$ ($r_2 \gg r_1$)

r_1 – distance (or distance half) between centre and slit
 r_2 – distance (or distance half) between 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

$hf_0 = \frac{hc}{\lambda_0}$ (λ_0 – threshold wavelength)

$h\nu = E$

$h\nu$ – work function of an ν is different for every metal.
Ejected photoelectrons have a maximum kinetic energy.

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

$hf - hf_0 = \frac{1}{2}mv_{\text{max}}^2$

f – change in an electrical circuit ($f = \frac{1}{T}$)

$W_{\text{work}} = hf_0$

W_{work} – stopping voltage (V) where no photoelectrons reach anode in photoelectric cell.



Maximum. Photons can impart their energy to metal as free electrons.

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

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

De Broglie Wavelength:

$\lambda = \frac{h}{mv} = \frac{h}{p}$ ($p = mv = \Delta W_{\text{kin}} = \frac{1}{2}mv^2$)

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

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

Electric Fields:

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

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

E – electric field strength (V m⁻¹ or N C⁻¹)

q – unit positive charge (C)

Q_1, Q_2 – voltage across plates (V)

d – distance between plates (m)

Q – force (N) on electric field

$E = \frac{F_{\text{grav}}}{q} = \frac{mg}{q}$ (a – acceleration (m s⁻²) of charged particle in electric field)

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

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 electric field moves in a parabolic path (eg cathode ray).

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

$W = \text{field strength (J)}$ $W = \frac{1}{2}mv^2$

v – particle velocity (m s⁻¹)

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.

$\text{strain energy} = \frac{1}{2}kx^2 = \frac{1}{2}F_{\text{max}}x$ (area under F vs. x graph)

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

ϵ – 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 per 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.

$E = \frac{F/A}{\Delta L/L} = \frac{FL}{A\Delta L}$ (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⁻³).



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 (m_i) from one end. Arbitrarily choose if 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) 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 $\Sigma F_{\text{perpendicular}} \times r = 0$

Stable: when it rotational and translational equilibrium.

$\Sigma \tau = 0$ or $\Sigma F_{\text{perpendicular}} \times r = 0$

Centre of Mass: (C.M.) point used to simplify motion of a body.



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 compress.

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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