

Wave Properties of Light:
Reflection – light reflects 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 = $i - n_2$
 $n =$ 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 = $n_2 \sin \theta$
 Bright areas are antinodes – constructive interference occurs in phase.

Path difference = $n_1 \lambda$
 $n =$ the distance (or distance here) dark or bright areas.

$n_1 \sin \theta_1 = n_2 \sin \theta_2$
 $n =$ distance (or distance) between nodes and antinodes (or distance) between nodes.

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.

$E_{\text{photon}} = hf = h\nu = hc/\lambda$
 $h =$ Planck's constant
 $f =$ frequency of light
 $\nu =$ frequency of light
 $\lambda =$ wavelength of light
 $c =$ speed of light

$E =$ work function of metal (is different for every metal)
 Ejected photoelectrons have a maximum kinetic energy.

$E_{\text{photon}} = hf = h\nu = hc/\lambda = W_0 + E_{\text{max}}$
 $W_0 =$ work function

$E =$ charge on an electron (1.6×10^{-19} C)
 $V_0 =$ stopping voltage (V) where no photoelectrons reach anode in photoelectric cell.



Maximum – photons can impart their energy to metal as free electrons.
 $E = hf = h\nu = hc/\lambda$
 $E = hf = h\nu = hc/\lambda$

De Broglie Wavelength:
 $\lambda = h/mv = h/p$
 $h =$ Planck's constant
 $m =$ mass of particle
 $v =$ velocity of particle
 $p =$ momentum of particle

Photons are only seen if $h\nu$ and $h\nu$ 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.
 $E_2 - E_1 = hf = hc/\lambda$ E_1 and $E_2 =$ different energy levels (J)

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

$E = \frac{1}{2}mv^2 = \frac{1}{2}qV$ $q =$ acceleration (m s⁻²) of charged particle in electric field

$E = \frac{1}{2}mv^2 = \frac{1}{2}qV = \frac{1}{2}qEd$

$W =$ 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 **$F_c = qvB$**
 $B =$ field strength (T)
 $v =$ particle velocity (m s⁻¹) **$v = \frac{R}{B}$**
 $B =$ 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.

Stress (force) = $F/A = E \Delta L/L_0$
Strain (extension) = $\Delta L/L_0$ (in a graph)

$\sigma =$ Stress (N m⁻²) or Pa = load force (F) per area, perpendicular unit area (A)
 $\Delta L = E \Delta L$

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 (at 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.
 $E = \frac{F/A}{\Delta L/L_0} = \frac{FL}{A\Delta L}$ (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 (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) from one end. Similarly, centre of mass 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 **$\sum F_z = 0$**

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.

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1. Understanding the eBook Vce Physics Key Card
 - The Rise of Digital Reading Vce Physics Key Card
 - Advantages of eBooks Over Traditional Books
2. Identifying Vce Physics Key Card
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Vce Physics Key Card
 - User-Friendly Interface
4. Exploring eBook Recommendations from Vce Physics Key Card
 - Personalized Recommendations
 - Vce Physics Key Card User Reviews and Ratings
 - Vce Physics Key Card and Bestseller Lists

5. Accessing Vce Physics Key Card Free and Paid eBooks
 - Vce Physics Key Card Public Domain eBooks
 - Vce Physics Key Card eBook Subscription Services
 - Vce Physics Key Card Budget-Friendly Options
6. Navigating Vce Physics Key Card eBook Formats
 - ePub, PDF, MOBI, and More
 - Vce Physics Key Card Compatibility with Devices
 - Vce Physics Key Card Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Vce Physics Key Card
 - Highlighting and Note-Taking Vce Physics Key Card
 - Interactive Elements Vce Physics Key Card
8. Staying Engaged with Vce Physics Key Card
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Vce Physics Key Card
9. Balancing eBooks and Physical Books Vce Physics Key Card
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Vce Physics Key Card
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Vce Physics Key Card
 - Setting Reading Goals Vce Physics Key Card
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Vce Physics Key Card
 - Fact-Checking eBook Content of Vce Physics Key Card
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

-
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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