

3.3.2 - Refraction, Diffraction & Interference

Refractive Index (n)-✔✔A measure of the relative speed of light in a material compared to in a vacuum ($3 \times 10^8 \text{ ms}^{-1}$)

Refraction-✔✔Light changing velocity when it travels across the boundary between two materials.

A more optically dense material (higher refractive index) causes it to slow down and bend towards the normal and vice versa.

What changes when a wave refracts?-✔✔Wave speed and wavelength change.

Frequency stays the same

Calculating Refractive Index-✔✔ $n = c (\text{vacuum}) / c (\text{material}) = \lambda (\text{vacuum}) / \lambda (\text{material})$

Refractive index of air-✔✔Air is considered a vacuum as it doesn't slow light down significantly so has a refractive index of one

Snell's Law-✔✔ $n_1 \sin \theta_1 = n_2 \sin \theta_2$

n_1 is the refractive index of material 1

n_2 is the refractive index of material 2

θ_1 is the angle of incidence of the ray in material 1

θ_2 is the angle of refraction of the ray in material 2

Total Internal Reflection-✔✔All light gets reflected off of a surface instead of passing through and being refracted.

TIR - Conditions-✔✔Light has to be more from a more optically dense medium (higher n value) into a less optically dense medium (lower n value).

Angle of Incidence > Critical angle

Critical Angle-✔✔The angle of incidence which causes light to travel alongside the boundary due to an angle of refraction = 90°

Critical Angle Formula-✔✔ $\sin \theta_c = n_2 / n_1$

where $n_1 > n_2$

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SA Adler



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