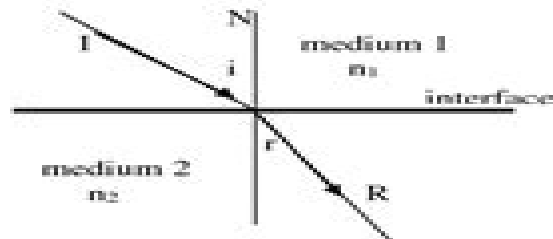


REFRACTION OF LIGHT

PHYSICS

1. It is the abrupt change of velocity of light wave as it passes from one medium to another medium of different density.
 2. It is the bending of light waves or rays as they travel from one medium to another of different density.
- Note: The boundary between two media is called the interface.

Consider a light ray from a source incident on a refracting surface.



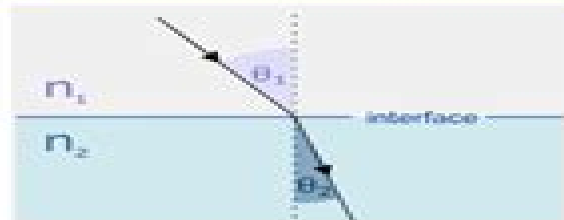
Where :

- I = incident ray
- R = refracted ray
- N = normal line
- i = angle of incidence
- r = angle of refraction
- n = index of refraction of medium

EXPERIMENTAL LAWS OF REFRACTION

1. N, I, and R are co-planar
2. **SNELLS' LAW** – a relationship relating the index of refraction in a given medium and incident light angle, to the index of refraction in the new medium and the refracted light angle.

$$n_1 \sin i = n_2 \sin r$$



Where:

- n_1 = index of refraction of medium 1
- n_2 = index of refraction of medium 2
- i (θ_1) = angle of light in medium 1
- r (θ_2) = angle of light in medium 2

ABSOLUTE INDEX OF REFRACTION (n)

It is the ratio between the velocity of light in free space or vacuum (C), to the velocity of light in the medium (v). In vacuum, velocity of light is $3 \times 10^8 \text{ m/s}$. As the index n increases, the speed decreases.

$$n = C/v$$



Where:

- n = refractive index
- $C = 3 \times 10^8 \text{ m/s}$
- v = speed of light in the new medium

Reflection And Refraction Exercises Answers

Hussin A.Rothana



Reflection And Refraction Exercises Answers:

Reflection And Refraction Exercises Answers Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Reflection And Refraction Exercises Answers**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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