

Ray Optics

Refraction

The phenomenon of change of path of light when it goes from one medium to another is called refraction.

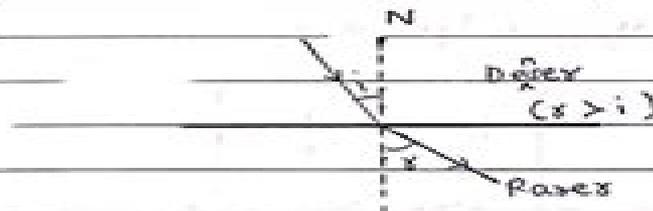
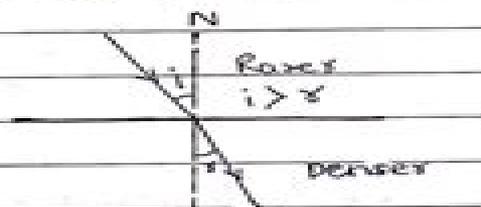
• Laws of refraction -

- 1) The incident ray, the refracted ray and the normal to the reflecting surface at the point of incidence, all lie in the same plane.
- 2) The ratio of sine of the angle of incidence to the sine of the angle of refraction is constant for the two given media.

$$\text{i.e. } \frac{\sin i}{\sin r} = \mu_b$$

The constant μ_b is called refractive index of medium b wrt medium a.

This law is also called Snell's law of refraction.



NOTE:-

- 1) If light travels from rarer to denser medium, then it bends towards the normal.
- 2) If light travels from denser to rarer medium, then it bends away from the normal.

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for the measurement range of 55 to 150 c it has a low output impedance linear output easy to operate and combined with the next circuit such as the control circuit lm35 can be operated with a single

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