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THEORY OF THE EXPERIMENT

The experiment is designed to study the effect of the angle of incidence on the refractive index of a transparent medium. The setup involves a rectangular glass block placed on a white sheet of paper. A normal line is drawn perpendicular to one of the faces of the block. A ray of light is directed towards the block at an angle of incidence i . The refracted ray is observed from the opposite face, and the angle of refraction r is measured. The refractive index n is calculated using Snell's law: $n = \frac{\sin i}{\sin r}$. The experiment is repeated for several different angles of incidence to determine the average refractive index of the glass block.

The refractive index of a medium is defined as the ratio of the speed of light in vacuum to the speed of light in the medium. It is a dimensionless quantity that depends on the wavelength of the light and the properties of the medium. The refractive index of a medium is always greater than 1. The refractive index of a medium is also related to the optical density of the medium. The refractive index of a medium is a measure of how much the light ray bends when it enters the medium from a less dense medium.







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