

Experiment 20

I. Purpose

Measure the refractive index of a transparent material by using Snell's law of refraction. Determine the critical angle of total internal reflection.

II. Principle

A. Law of Refraction (Snell's Law)

When a light ray passes from one medium to another, it bends towards the normal. The relationship between the angle of incidence i and the angle of refraction r is given by Snell's law:

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

where n_1 and n_2 are the refractive indices of the two media. For a ray incident from a denser medium (medium 1) to a rarer medium (medium 2), the angle of refraction r is greater than the angle of incidence i . As the angle of incidence increases, the angle of refraction also increases. At a certain angle of incidence, the refracted ray bends so much that it just grazes the interface between the two media. This angle is called the critical angle i_c .

For angles of incidence greater than i_c , total internal reflection occurs.

The critical angle i_c is given by the relation: $\sin i_c = \frac{n_2}{n_1}$

where n_1 is the refractive index of the denser medium and n_2 is the refractive index of the rarer medium.

When a ray is incident at an angle $i < i_c$, it is refracted away from the normal. When $i = i_c$, the refracted ray travels along the interface. When $i > i_c$, total internal reflection occurs.

The critical angle i_c is given by:

$$\sin i_c = \frac{n_2}{n_1}$$

Chm1046l Manual With Answers

Didier Musso



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