Answer on Question #52474, Physics, Optics

In the equation $\mu = \frac{\sin i}{\sin r}$, where i and r are the angles of incidence and refraction respectively, µ is called the _____

Solution:

This relationship between the angles of incidence and refraction and the indices of refraction of the two media is known as Snell's Law. Snell's law applies to the refraction of light in any situation, regardless of what the two media are.

Experimentally, it is found that for a ray of light traveling from air into some material, the following equation can be written

$$\frac{\sin i}{\sin r} = \mu$$

where μ index of refraction of the material.

Answer: index of refraction.