

Reflection and Refraction Lab

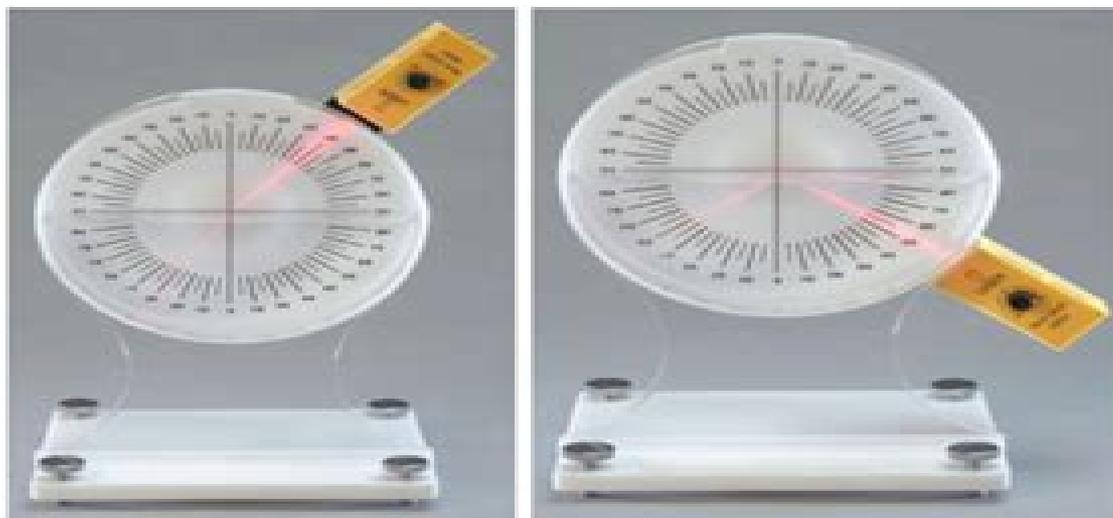
Determining the Index of Refraction and Critical Angle

PURPOSE: The purpose of this experiment is to study the two fundamental laws of geometric optics: the law of reflection and refraction between air and liquid. Observe the total internal reflection of a ray in the liquid and determine the critical angle for water-air interface. Calculate the index of refraction for water and compare it to the standard value of 1.333.

APARATUS: Diode laser, a circular acrylic tank, water.

DESCRIPTION OF APARATUS:

A circular acrylic water tank with a clear front has a white back with a printed protractor. A pivoting arm attached to the back plate can be rotated 360° around the tank and carries a magnetically mounted diode laser with a built-in beam spreader. The tank will be half-filled with water, and a bright, narrow ray is directed onto the water surface from above or below to measure the incident and refracted angles. The critical angle and total internal reflection can also be clearly demonstrated.



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