

Answer on question #52741, Physics, Optics

Question The critical angle for total internal reflection at an air-water interface is approximately 48° . In which of the following situations will total internal reflection occur?

- light incident in water at 40°
- light incident in water at 55°
- light incident in air at 40°
- light incident in air at 48°

Solution Total internal reflection will occur when light incident in water at 55° , as it occurs when light incident from medium with higher refractive index.