

PHY 213

Lab 8: Ray Optics 1 Reflection and Refraction

No uncertainty measurements for this lab.

Introduction

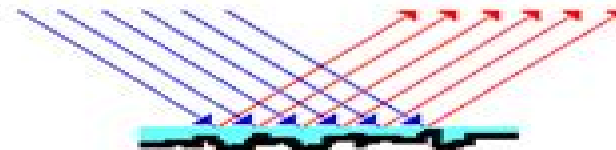
Over the last fifty years the laser has become a central tool in experimental physics because light can be controlled in a variety of ways to measure distance, time, density, atomic composition, atomic structure, temperature, etc...

Today we will be focused on what happens when light goes from one material to another material. If we believe that light is just a particle, then in general there are a few basic possibilities:

- 1) If the light stays outside the material by bouncing off the surface, we call this **reflection**. There are two basic types of reflection, **specular** and **diffuse reflection**, which depend on how smooth the material's surface is.



**A dry asphalt roadway
diffuses incident light.**



**When wet, water fills in the
crevices, resulting in specular
reflection and a glare.**

- 2) If the light ray enters the material, it can be **absorbed**- changing from light into heat or some other form of energy, or it can be **refracted**- entering the material while remaining light but usually changing direction at the surface of the material.

Now of course the light can do any combination of these things and frequently does all of them at the same time (i.e. 5% of the light is absorbed, 45% is refracted, 5% is reflected diffusely, and 45% is reflected specularly).

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AW Chickering



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