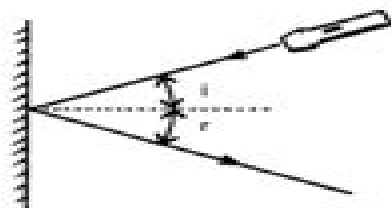


1 REFLECTION

If you shine a laser pointer into a mirror in a dark room with a lot of dust or smoke in the air, you will be able to see the beam approach and reflect from the mirror. It will appear somewhat as in the figure here. The dashed line is drawn perpendicular to the mirror at the point where the beam strikes it. The line is



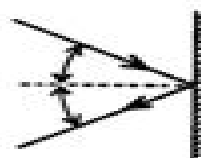
said to be “normal” to the surface and is often called “the normal.” (In geometry, *normal* means *perpendicular*.) Notice that the angle that the incoming (or “incident”) beam makes with the normal is equal to the angle made by the reflected beam. This relationship between the angle of the incident beam (angle i) and the angle of the reflected beam (angle r) is called the law of reflection and is stated in formula form as:

$$i = r$$

- (a) According to the law of reflection, if a beam of light strikes a mirror at an angle of 35° with the normal, at what angle will the reflected beam leave the mirror? _____
- (b) The figure here represents a beam of light striking a mirror. Sketch in the normal and the reflected beam. _____



Answers: (a) 35° with the normal; (b) The two angles marked in the figure here are equal.



- 2 When light is reflected from a plane (flat) mirror, the beam is reflected evenly as **specular reflection** (left figure). When light strikes a non-shiny surface such as the paper of this page, however, **diffuse reflection** occurs (right figure). The right figure in this frame represents the surface of this page highly magnified. The light that hits the surface strikes tiny parts of the surface that are at different angles to the incoming rays. Since there is no regularity in the surface, there is no regularity in the reflected light—it bounces off in all directions.

Diffuse reflection allows you to see this page (and most other objects) no matter at what angle it is with respect to you and to the incoming light.

Study Guide Physics Reflection And Mirrors

Stanley A. Williams



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