

## 22.1 WAVE FRONTS AND RAYS

## 22.2 REFLECTION

- The angle of incidence of a light ray on a mirrored surface is  $30^\circ$ . What is the angle between the incident and reflected rays?
- A beam of light is incident on a plane mirror at an angle of  $25^\circ$  relative to the normal. What is the angle between the reflected ray and the surface of the mirror?
- IE A beam of light is incident on a plane mirror at an angle  $\alpha$  relative to the surface of the mirror. (a) Will the angle between the reflected ray and the normal be (1)  $\alpha$ , (2)  $90^\circ - \alpha$ , or (3)  $2\alpha$ ? (b) If  $\alpha = 33^\circ$ , what is the angle between the reflected ray and the normal?
- IE Two upright plane mirrors touch along one edge, where their planes make an angle of  $\alpha$ . A beam of light is directed onto one of the mirrors at an angle of incidence of  $\beta$  ( $\beta < \alpha$ ) and is reflected onto the other mirror. (a) Will the angle of reflection of the beam from the second mirror be (1)  $\alpha$ , (2)  $\beta$ , (3)  $\alpha + \beta$ , or (4)  $\alpha - \beta$ ? (b) If  $\alpha = 60^\circ$  and  $\beta = 40^\circ$ , what will be the angle of reflection of the beam from the second mirror?
- IE Two identical plane mirrors of width  $w$  are placed a distance  $d$  apart with their mirrored surfaces parallel and facing each other. (a) A beam of light is incident at one end of one mirror so that the light just strikes the far end of the other mirror after reflection. Will the angle of incidence be (1)  $\sin^{-1}(w/d)$ , (2)  $\cos^{-1}(w/d)$ , or (3)  $\tan^{-1}(w/d)$ ? (b) If  $d = 50$  cm and  $w = 25$  cm, what is the angle of incidence?
- Two people stand 5.0 m apart and 3.0 m away from a large plane mirror in a dark room. At what angle of incidence should one of them shine a flashlight on the mirror so that the reflected beam directly strikes the other person?
- A beam of light is incident on a plane mirror at an angle of incidence of  $35^\circ$ . If the mirror rotates through a small angle of  $\theta$ , through what angle will the reflected ray rotate?
- Two plane mirrors,  $M_1$  and  $M_2$ , are placed together as illustrated in Fig. 22.25. (a) If the angle  $\alpha$  between the mirrors is  $70^\circ$  and the angle of incidence,  $\theta_{i1}$ , of a light ray incident on  $M_1$  is  $35^\circ$ , what is the angle of reflection,  $\theta_{r1}$ , from  $M_2$ ? (b) If  $\alpha = 115^\circ$  and  $\theta_{i1} = 60^\circ$ , what is  $\theta_{r1}$ ?



FIGURE 22.25  
Plane mirrors together. See Exercises 8 and 9.

- For the plane mirrors in Fig. 22.25, what angles  $\alpha$  and  $\theta_{i1}$  would allow a ray to be reflected back in the direction from which it came (parallel to the incident ray)?

## 22.3 REFRACTION

## 22.4 TOTAL INTERNAL REFLECTION AND FIBER OPTICS

- The index of refraction in a certain precious transparent stone is 2.35. What is the speed of light in that stone?

- The speed of light in the core of the crystalline lens in a human eye is  $2.13 \times 10^8$  m/s. What is the index of refraction of the core?
- IE The indices of refraction for zircon and fused quartz can be found in Table 22.1. (a) The speed of light in fused quartz is (1) greater than, (2) less than, (3) the same as the speed of light in zircon. Explain. (b) Compute the ratio of the speed of light in fused quartz to that in zircon.
- IE A beam of light traveling in air is incident on a transparent plastic material at an angle of incidence of  $50^\circ$ . The angle of refraction is  $35^\circ$ . What is the index of refraction of the plastic?
- IE A beam of light enters water from air. (a) Will the angle of refraction be (1) greater than, (2) equal to, or (3) less than the angle of incidence? Explain. (b) If the angle of incidence is  $50^\circ$ , find the angle of refraction.
- IE Light passes from a crown glass container into water. (a) Will the angle of refraction be (1) greater than, (2) equal to, or (3) less than the angle of incidence? Explain. (b) If the angle of refraction is  $20^\circ$ , what is the angle of incidence?
- The critical angle for a certain type of glass in air is  $41.8^\circ$ . What is the index of refraction of the glass?
- IE (a) For total internal reflection to occur, should the light be directed from (1) air to water or (2) water to air? Explain. (b) What is the critical angle of water in air?
- What is the critical angle of a diamond in water?
- A beam of light in air is incident on the surface of a slab of fused quartz. Part of the beam is transmitted into the quartz at an angle of refraction of  $30^\circ$  relative to a normal to the surface, and part is reflected. What is the angle of reflection?
- A beam of light is incident from air onto a flat piece of polystyrene at an angle of  $55^\circ$  relative to a normal to the surface. What angle does the refracted ray make with the plane of the surface?
- The laser used in cornea surgery to treat corneal disease is the excimer laser, which emits ultraviolet light at a wavelength of 193 nm in air. The index of refraction of the cornea is 1.376. What are the wavelength and frequency of the light in the cornea?
- IE Light passes from material A, which has an index of refraction of  $\frac{4}{3}$ , into material B, which has an index of refraction of  $\frac{3}{2}$ . (a) The speed of light in material A is (1) greater than, (2) the same as, (3) less than the speed of light in material B. Explain. (b) Find the ratio of the speed of light in material A to the speed of light in material B.
- IE In Exercise 22, (a) the wavelength of light in material A is (1) greater than, (2) the same as, (3) less than the wavelength of light in material B. Explain. (b) What is the ratio of the light's wavelength in material A to that in material B?
- The critical angle between two materials is  $43^\circ$ . If the angle of incidence is  $35^\circ$ , what is the angle of refraction? (Consider that light can travel to the interface from either material.)
- (a) An object immersed in water appears closer to the surface than it actually is. What is the cause of this illusion? (b) Using Fig. 22.26, show that the apparent depth for small angles of refraction is  $d' = d/\pi$ , where  $\pi$  is the index of refraction of the water. [Hint: Recall that for small angles,  $\tan \theta \approx \sin \theta$ .]

## Chapther 29 Reflection And Refraction Exercises

**AMAR NATH BHUTANI**

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