

7 •

Determine the Concept The first zeroes in the intensity occur at angles given by $\sin \theta = \lambda/a$. Hence, decreasing a increases θ and the diffraction pattern becomes wider.

8 •

Determine the Concept Equation 33-2 expresses the condition for an intensity maximum in slit interference. Here d is the slit separation, λ the wavelength of the light, m an integer, and θ the angle at which the interference maximum appears.

Equation 33-11 expresses the condition for the first minimum in single-slit diffraction. Here a is the width of the slit, λ the wavelength of the light, and θ the angle at which the first minimum appears, assuming $m = 1$.

9 •

Picture the Problem We can solve $d \sin \theta = m\lambda$ for θ with $m = 1$ to express the location of the first-order maximum as a function of the wavelength of the light.

The interference maxima in a diffraction pattern are at angles θ given by:

$$d \sin \theta = m\lambda$$

where d is the separation of the slits and $m = 0, 1, 2, \dots$

Solve for the angular location θ_1 of the first-order maximum :

$$\theta_1 = \sin^{-1}\left(\frac{\lambda}{d}\right)$$

Because $\lambda_{\text{green light}} < \lambda_{\text{red light}}$:

$$\theta_{\text{green light}} < \theta_{\text{red light}} \text{ and } \boxed{(a) \text{ is correct.}}$$

*10 •

Determine the Concept The distance on the screen to m th bright fringe is given by

$$y_m = m \frac{\lambda L}{d}, \text{ where } L \text{ is the distance from the slits to the screen and } d \text{ is the separation of}$$

the slits. Because the index of refraction of air is slightly larger than the index of refraction of a vacuum, the introduction of air reduces λ to λ/n and decreases y_m . Because the separation of the fringes is $y_m - y_{m-1}$, the separation of the fringes decreases and $\boxed{(b) \text{ is correct.}}$

11 •

(a) False. When destructive interference of light waves occurs, the energy is no longer distributed evenly. For example, light from a two-slit device forms a pattern with very bright and very dark parts. There is practically no energy at the dark fringes and a great deal of energy at the bright fringe. The total energy over the entire pattern equals the

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Clifford A. Pickover



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