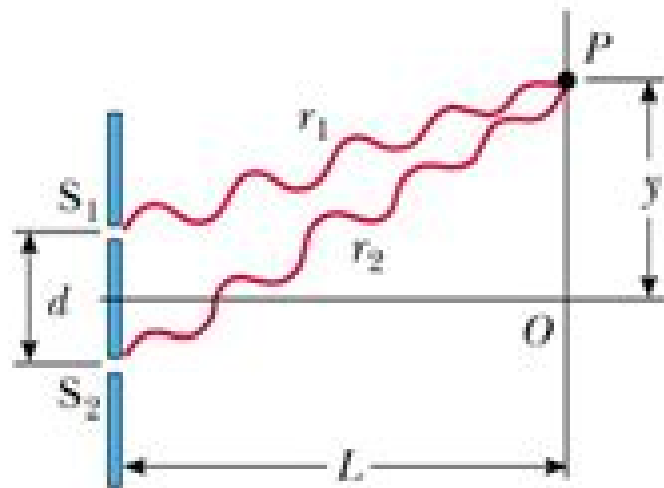


# Intensity Distribution of the Interference Pattern



$$E_1 = E_0 \sin \omega t \quad E_2 = E_0 \sin(\omega t + \phi)$$

$$\delta = r_2 - r_1 = d \sin \theta$$

$$\text{If } \delta = \lambda \quad \text{then } \phi = 2\pi$$

$$\frac{\delta}{\lambda} = \frac{\phi}{2\pi} \quad \longrightarrow \quad \phi = 2\pi \frac{\delta}{\lambda} = \frac{2\pi}{\lambda} d \sin \theta$$

$$E_p = E_1 + E_2$$

$$E_p = E_0 [\sin \omega t + \sin(\omega t + \phi)]$$

$$E_p = 2E_0 \cos\left(\frac{\phi}{2}\right) \sin\left(\omega t + \frac{\phi}{2}\right)$$

$$I \propto E_p^2 = 4E_0^2 \cos^2\left(\frac{\phi}{2}\right) \sin^2\left(\omega t + \frac{\phi}{2}\right)$$

$$I = I_{\max} \cos^2\left(\frac{\phi}{2}\right)$$

$$I = I_{\max} \cos^2\left(\frac{\pi d \sin \theta}{\lambda}\right)$$

$$I = I_{\max} \cos^2\left(\frac{\pi d}{\lambda L} y\right)$$

# Intensity Distribution Of The Interference Phasor

**Raymond A. Serway**



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