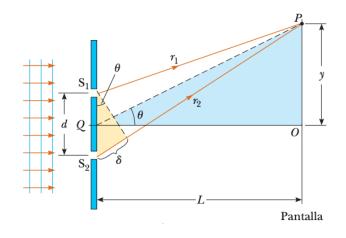
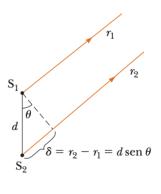


UNIDAD V: INTERFERENCIA DE ONDAS DE LUZ





INTERFERENCIA CONSTRUCTIVA

INTERFERENCIA DESTRUCTIVA

$$y_{brillante} = \frac{\lambda L}{d} m$$

$$y_{oscura} = \frac{\lambda L}{d} \left(m + \frac{1}{2} \right)$$

INTENSIDAD

$$I = I_o cos^2 \left(\frac{\varphi}{2}\right)$$

$$I = I_o \cos^2\left(\frac{\varphi}{2}\right) \qquad I = I_o \cos^2\left(\frac{\pi d}{\lambda I}y\right)$$

Diferencia de fase

$$rac{\delta}{\lambda} = rac{\phi}{2\pi}$$

$$\phi = \frac{2\pi}{\lambda} \, \delta = \frac{2\pi}{\lambda} \, d \operatorname{sen} \theta$$

PELICULAS DELGADAS

REFLEXION SIN DIFERENCIA DE FASE

$$2nt = (m + \frac{1}{2})\lambda$$
 $(m = 0, 1, 2, ...)$ Destructiva

$$2nt = m\lambda$$
 $(m = 0, 1, 2, ...)$ Constructiva

REFLEXION CON DIFERENCIA DE FASE

$$2nt = (m + \frac{1}{2})\lambda$$
 $(m = 0, 1, 2, ...)$ Constructiva

$$2nt = m\lambda$$
 $(m = 0, 1, 2, ...)$ Destructiva