

Consider the interference experiment below.



$$\Delta\phi = \pi/2$$

$$W = 4I_0 \cos^2 \phi/2$$

$\underbrace{\hspace{10em}}_{\rightarrow 1}$

$$I_0 = W/4$$

$$I_{at\ 0} = 4I_0 \cos^2 \phi/2$$

$$= 4I_0 \cos^2 \pi/4$$

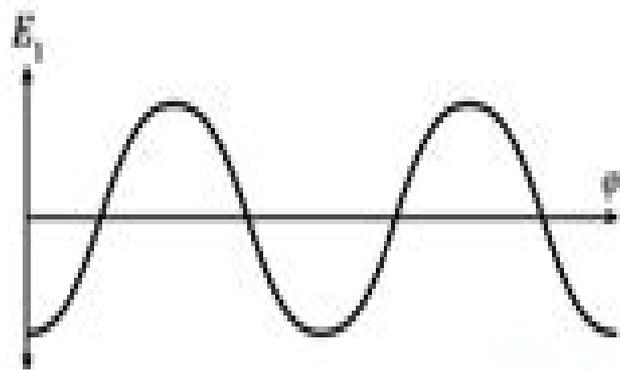
$$= 4I_0 \cdot \frac{1}{2}$$

$$= 2I_0$$

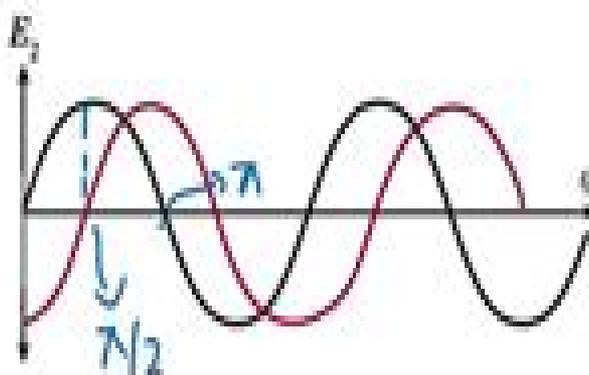
$$= 2 \times \frac{W}{4} = \frac{W}{2} \star$$

The displacement graphs of the light waves at the slits (S_1 and S_2) look like the following -

• at S_1 :



• at S_2 :



The intensity of a maximum is W units. $\rightarrow \Delta\phi = 0$

What is the intensity at the point, O , on the screen?

Note: O lies on the perpendicular bisector of S_1S_2 . The intensity of light coming from the two slits are equal.

Electromagnetic Waves Optics And Modern Physics

Katrin Zwirgmaier



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