

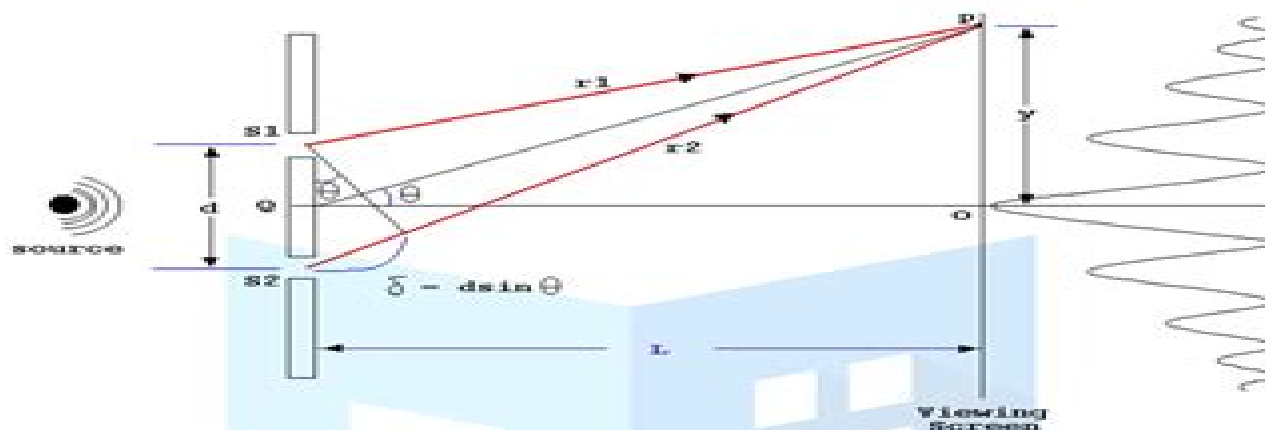


Figure showing bright fringes in Young's double slit experiment.

Given:

Distance between the slits (d) = 0.28 mm

Distance between the slits and the screen (D) = 1.4 m

Distance between the central bright fringe and fourth bright fringe (y_n) = 1.2 cm

where n is the order of the fringe, here, $n = 4$

λ = Wavelength of light used

From the formula,

$$\frac{dy_n}{D} = n\lambda$$

$$\Rightarrow \frac{0.28 \times 10^{-3} \text{ m}}{\left(\frac{1.2 \times 10^{-2} \text{ m}}{1.4 \text{ m}} \right)} = 4\lambda$$

$$\lambda = 142.8 \text{ nm}$$

Hence, the wavelength of light used is 142.8 nm.

5. In Young's double-slit experiment using monochromatic light of wavelength λ , the intensity of light at a point on the screen where path difference is λ , is K units. What is the intensity of light at a point where path difference is $\lambda/3$?

A Students Guide To Optical Interference And Diffraction With Solutions In Mathcad

D Kirk



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