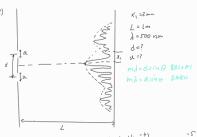


y = 1.8.102m L= 1.4n. A= 6(3.104x d=1.5.10-1m

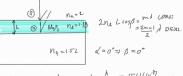
dsinb and BRIGHT MEZ $\theta < c1$ smarty $\theta = \frac{X}{2}$ a) d. k. ~ m) $\chi_{N} = \chi_{1} = \frac{(1)(574.1)(15^{4}) \cdot (12)}{(2.5)(35)(35^{4})} = 262 \cdot 10^{-5} = 2.6 \text{ M/m}$ b) $q x_{1}^{m} = (m+\frac{1}{7})y = x_{1}^{m} = \frac{q}{7}(m+\frac{1}{7})y$ a) $\sin \theta = \frac{\Delta}{d} = 0$ $\Delta = d \cdot \sin \theta = 1.929 \cdot [0]^{6} \text{m}$ $ty \Theta = \frac{y}{L} = \frac{1.9 \cdot 10^{-2}}{1.5} \Rightarrow \Theta = 0.7366^{\circ}$ b) $\frac{\Delta}{\lambda} = \frac{1.429 \cdot 10^{-6}}{643 \cdot 10^{-2}} = 3$ c) BRIGHT 1=1m 1=500 nm d=?



$$m\lambda = d \frac{x}{L} \Rightarrow d = \frac{L \ln \lambda}{x} = \frac{|1|(5)|(0^{-\frac{1}{2}})}{2 \cdot 10^{\frac{1}{2}}} = 2 \cdot 7 \cdot |0| \ln 20.25 \text{ m}$$

$$x_5 = 5x_1 = \text{lem}$$

$$m\lambda = u \frac{x \ln}{L} \Rightarrow \alpha = \frac{m \ln \lambda}{x} = \frac{(1)(5)(10^{-\frac{1}{2}})(1)}{(0^{-\frac{1}{2}})} = 5 \cdot .05 \cdot 0.05 \cdot \text{Am}$$

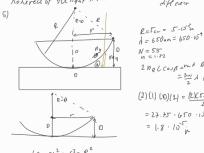


a)
$$n_{k} 2n = \frac{\lambda}{2}$$
 $C = \frac{\lambda}{4m_{k}} = \frac{(5.5)(10^{\frac{3}{2}})}{(6)(1.37)} = 98 \text{ nm}$

b)
$$m \in \mathbb{Z}$$

 $m_1 = 1 \cdot 2, = 3 \cdot ... \cdot 1$
 $m_2 = 1 \cdot 1, = 3 \cdot ... \cdot 1$
 $m_3 = 1 \cdot 1, = 71 \cdot ... \cdot 1$
 $m_3 = 1 \cdot 1, = 71 \cdot ... \cdot 1$
 $m_{1,1} = 1, = 1, = 1$

Koheren of the light is the must of the options puth different



$$\begin{array}{l} n = 1.72 \\ 2 \, n_{e} \, C \, co_{f} \, \beta = \frac{N_{e}}{2} \, A \, OR(700) \\ = \frac{N_{e}}{2} \, A \, OR(700) \\ (2)(1)(0)(1) = \frac{(2 \cdot (2.7) + 1)}{2} (670)(15^{-6}) \\ = 2 + .75 \cdot 650 \cdot 15^{-6} \\ = [\cdot 3 \cdot 10^{-7}] \\ = [\cdot 3 \cdot 10^{-7}] \end{array}$$

$$(a - \rho)^{2} + \ell^{2} = R^{2}$$

$$R^{2} - 2 R\rho + \rho^{2} \Gamma \Gamma^{2} = R^{4}$$

$$R = \frac{\rho^{2} + \nu^{2}}{2 \cdot \rho} = \frac{3 \cdot 2 \cdot \sqrt{\rho^{2}}}{3 \cdot 6 \cdot \sqrt{s^{2}}} = \frac{6 \cdot 95 \cdot |\rho|}{68 \cdot 5}$$

$$\frac{1}{\ell} = (n - 2) \left(\frac{1}{P_{1}}\right) P_{2} = R^{2}$$

$$2 n_{k} d \cos \beta = n \lambda$$

$$= \frac{2m+1}{2} \lambda$$

$$0 \sqrt{N_{n}=1}$$

$$0 n_{k=1}$$

$$2 n_{k} d \cos \beta = n \lambda \quad (\text{sum } \lambda)$$

$$= \frac{2m+1}{2} \lambda \cdot (\text{regue})$$

$$2 n_{k} d \cos \beta = n \lambda$$

$$2 n_{k} d \cos \beta = n \lambda$$