$$I = I_0 \frac{\pi \kappa^2}{\varepsilon r^2 \lambda^4 r^2} \sin^2 \phi.$$

$$\frac{dI}{dr} = \int I = \left(\frac{I_0 \pi \kappa^2}{\varepsilon r^2 r^2} \sin^2 \phi \right) \lambda^{-4}$$

$$\frac{dI}{dr} = \int I = \left(\frac{I_0 \pi \kappa^2}{\varepsilon r^2 \lambda^4} \sin^2 \phi \right) r^{-2}$$

$$\frac{dI}{d\theta} = \int I = \left(\frac{I_0 \pi \kappa^2}{\varepsilon r^2 \lambda^4} \sin^2 \phi \right) \sin^2 \phi.$$

$$I = \left(\frac{I_0 + \kappa^2}{\mathcal{E}r^2 r^2} \sin^2 \phi\right) \lambda^{-4}$$

$$\frac{dI}{d\lambda} = -4\left(\frac{\text{Iota2}}{\varepsilon_r^2 r^2} \sin^2 \phi\right) \lambda^{-5}$$

$$\frac{dI}{dh} = -4I_0 \frac{\pi x^2}{\epsilon r^2 \lambda^5 r^2} sin^2 \phi$$

$$\frac{dI}{dr} = -2 \left(\frac{I_0 \pi \alpha^2 \sin^2 \phi}{\varepsilon_1^2 \lambda^4} \right) r^{-3}$$

$$\frac{dI}{dv} = -2I_0 \frac{\pi v^2}{\varepsilon^2 \lambda^4 r^3} \sin^2 \phi$$

$$I = \left(\frac{I_0 \pi u^2}{\varepsilon_r^2 r^2 \lambda^4}\right) \sin^2 \phi.$$
 a function q a function - we the chain rule).

$$\frac{du}{d\phi}$$
 = $\cos \phi$.

$$\frac{dI}{d\phi} = \frac{dI}{du} \times \frac{du}{d\phi} = 2 \left(\frac{I_0 T_1 \kappa^2}{E_r^2 r^2 \lambda^4} \right) u \cdot \cos \phi.$$

$$\frac{dI}{d\phi}$$
. $\frac{2I_0}{E_1^2r^2\lambda^4}$ $\sup \cdot \cos \phi$.