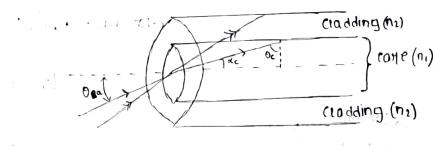
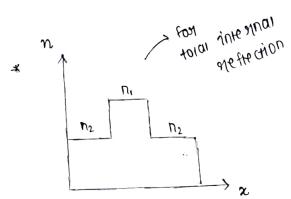
CONDITION FOR LIGHT PROPAGATION IN OPTICAL FIBRE:





(Step index fibre)

anell'a law a in the coste- adding boundary

$$\Rightarrow$$
 $\sin \theta_c = \frac{n_2}{n_1}$

$$\Rightarrow \theta_c = \sin^{-1}\left(\frac{n_2}{n_{11}}\right) e_1 \qquad \text{if } e_2 = \sin^{-1}\left(\frac{n_2}{n_{11}}\right) e_2 \qquad \text{if } e_3 = e_4 = e_5 = e_5$$

de le me "coitical polopagation angle"

sin oc = cos de

$$\sin \alpha_{c} = \sqrt{1 - \cos^{2} \alpha_{c}^{2}} = \sqrt{\frac{n_{2}}{n_{1}}^{2}} = \sqrt{\frac{n_{1}^{2} - n_{2}^{2}}{n_{1}^{2}}}$$

prilind Snells at the gap fibrie intersference law $n_a \sin \theta_a = n_1 \sin \kappa_c$, $\theta_a \longrightarrow acceptence$