

220

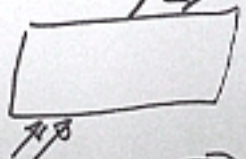


$$\theta_i = \theta_r$$

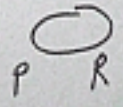
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$$n_1 \sin \theta_i = n_2 \sin \theta_2$$

$$n = \frac{c}{v}$$

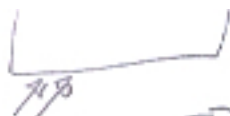



$$n \propto \frac{1}{\lambda}$$



$$\frac{n_1}{n_2} \nearrow$$

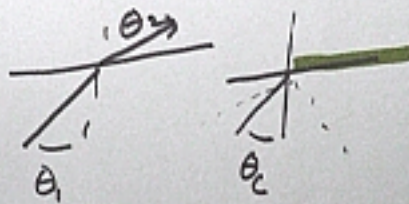
$$n_1 > n_2$$

$$n = \frac{c}{v}$$


$$n(\lambda)$$


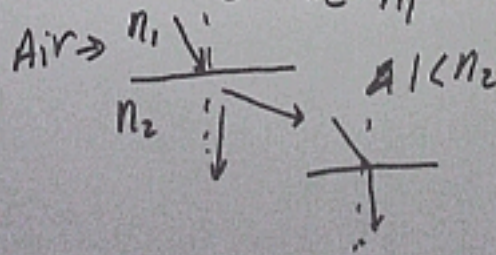
$$\frac{n_1}{n_2} \rightarrow n_1 > n_2$$

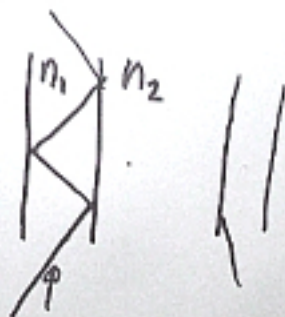
$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$



$$n_1 \sin \theta_c = n_2$$

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





$$\sin \theta_c = \frac{1}{n}$$

$$\frac{1}{f} = (n-1) \left( \frac{1}{R_1} - \frac{1}{R_2} \right)$$



$$S_2 = t \tan \theta_2 \approx t \sin \theta_2$$

$$S_1 = t \tan \theta_1 \approx t \sin \theta_1$$

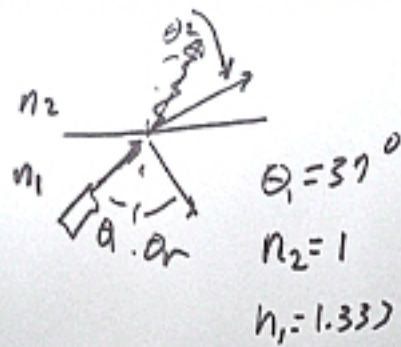


$\tan \theta \approx \sin \theta$  small angle

$$d = S_1 - S_2 = t(\sin \theta_1 - \sin \theta_2)$$

$$d = t \sin \theta_1 \left(1 - \frac{n_1}{n_2}\right)$$





$$n_2 = 1$$

$$n_1 = 1.333$$

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$

$$\sin \theta_2 = \frac{1.333}{1} \sin(59)$$

$$= 53^\circ$$

