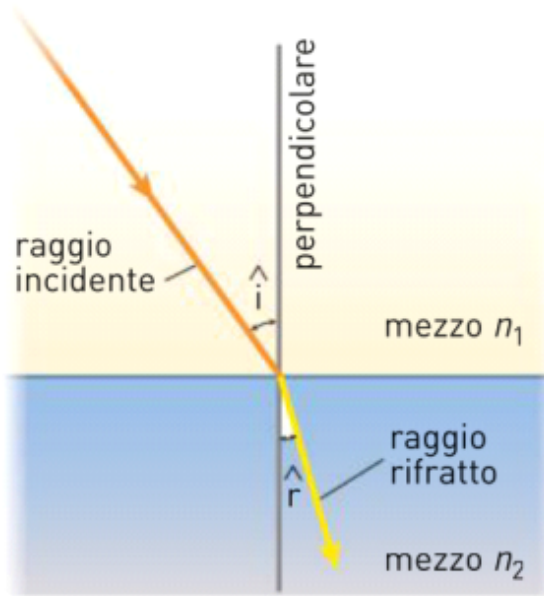


# LEGGE DI SNELL



$$n_1 \sin \hat{i} = n_2 \sin \hat{r}$$

$$\frac{\sin \hat{i}}{\sin \hat{r}} = \frac{n_2}{n_1}$$

INDICE DI RIFRAZIONE RELATIVO DEL MEZZO 2 RISP. AL MEZZO 1

INDICI DI RIFRAZIONE

$$n_1 = \frac{c}{v_1}$$

VEL LUCE NEL VUOTO  $\hat{=} 3,00 \times 10^8 \frac{m}{s}$

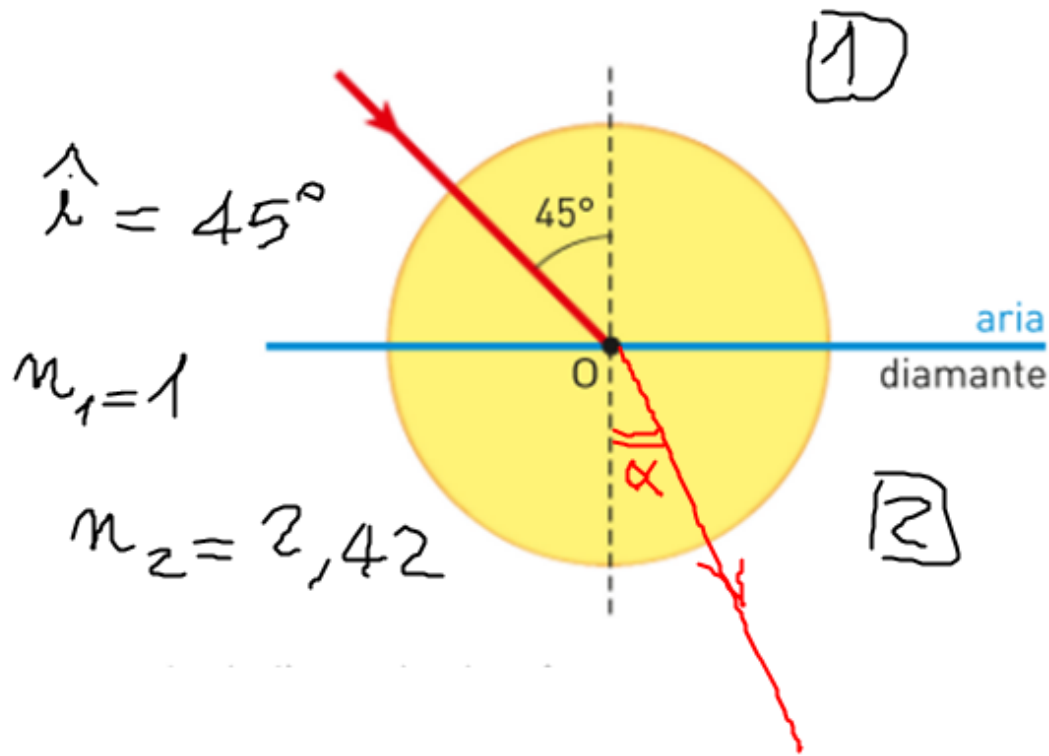
VEL LUCE NEL MEZZO 1

$$n_2 = \frac{c}{v_2}$$

VEL LUCE NEL MEZZO 2

PAG. 968 N. 50

$\alpha = ?$



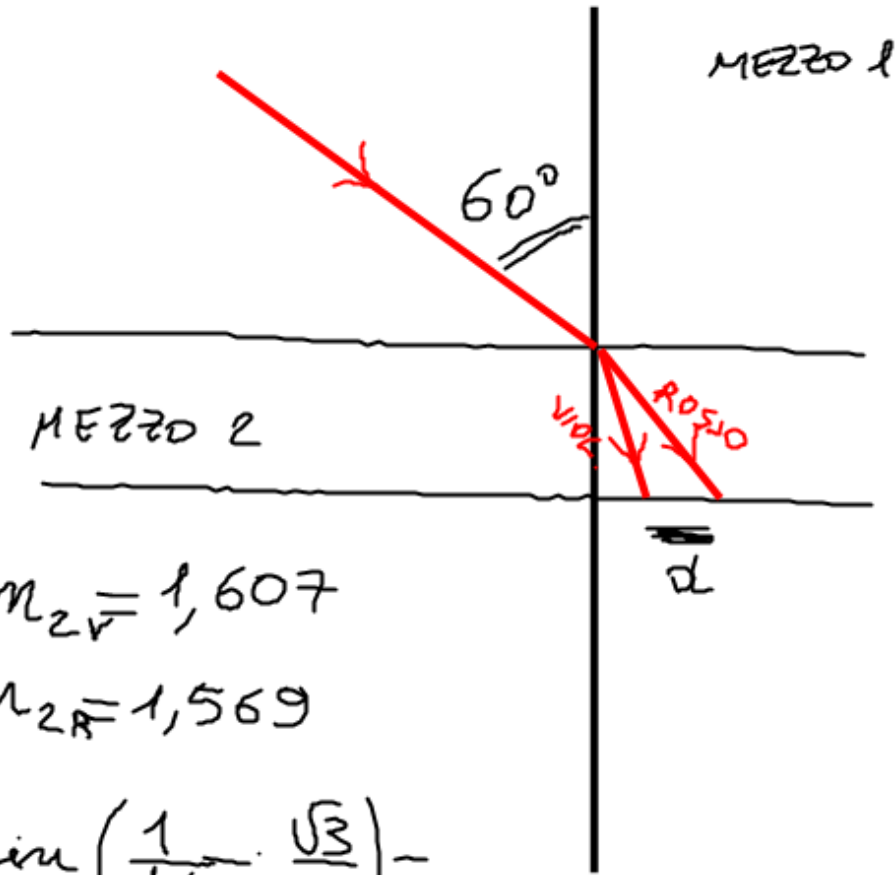
$$\frac{\sin \hat{i}}{\sin \alpha} = 2,42$$

$$\sin \alpha = \frac{\frac{\sqrt{2}}{2}}{2,42} = 0,292192\dots$$

$$\alpha = \arcsin(0,292192\dots) = 16,98\dots^\circ \simeq 17^\circ$$

55

$d = ?$

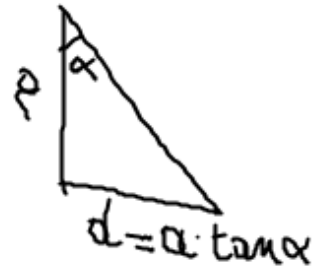


VIOLETTA  $n_{2V} = 1,607$

ROSSO  $n_{2R} = 1,569$

$$\hat{\alpha}_V = \arcsin\left(\frac{1}{1,607} \cdot \frac{\sqrt{3}}{2}\right) = 32,6^\circ \approx 33^\circ$$

$$\hat{\alpha}_R = \arcsin\left(\frac{1}{1,569} \cdot \frac{\sqrt{3}}{2}\right) = 33,5^\circ \approx 34^\circ$$



$$\frac{\sin \hat{\alpha}}{\sin \hat{\alpha}} = \frac{n_2}{n_1}$$



$$\sin \hat{\alpha} = \frac{n_1}{n_2} \sin \hat{\alpha}$$

$$d = 0,10 \text{ m} (\tan 33,5^\circ - \tan 32,6^\circ) = 2,2 \times 10^{-3} \text{ m}$$