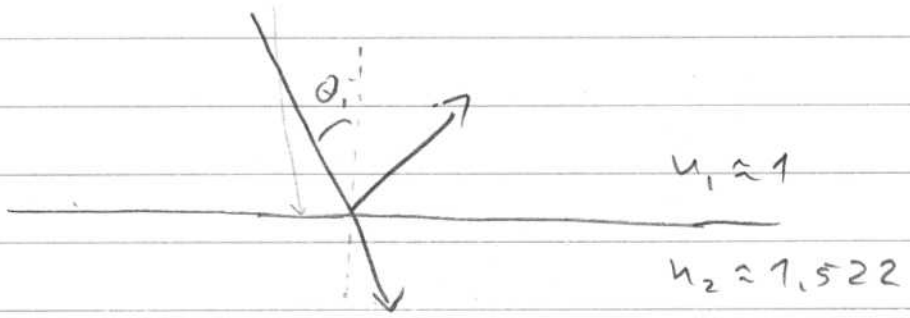
4.42



OBS! $\theta_i = 0$, (normalt infall)

$$R_\perp = r_\perp^2 \quad , \quad R_\parallel = r_\parallel^2$$

$$r_\perp = -\frac{\sin(\theta_i - \theta_t)}{\sin(\theta_i + \theta_t)} \quad , \quad r_\parallel = \frac{\tan(\theta_i - \theta_t)}{\tan(\theta_i + \theta_t)}$$

polarisation ??

MEN, speciellt vid normalt infall:

$$r_\perp = \frac{n_1 - n_2}{n_1 + n_2} \quad , \quad r_\parallel = \frac{n_2 - n_1}{n_1 + n_2} = -r_\perp$$

$\Rightarrow R_\parallel = R_\perp = R$ (oberoende av pol.)

$$\underline{\underline{R = \left(\frac{n_1 - n_2}{n_1 + n_2}\right)^2 = 0{,}0428}}$$

$$T_{\perp,\parallel} = \frac{n_2}{n_1}\frac{\cos\theta_t}{\cos\theta_i} t_{\perp,\parallel}^2$$

Men, enligt att $R + T = 1$

$\Rightarrow T = 0{,}957$