

Digitalizado com CamScanner

$$\mathcal{R}'_{i} \times \vec{G} = (\hat{z} \cos \theta_{i} + \hat{x} \sin \theta_{i}) \times \hat{y} G_{0i} \exp(\sim)$$

$$= -\hat{x} \cos \theta_{i} G_{0i} \exp(\sim) + \hat{x} \sin \theta_{i} G_{0i} \exp(\sim)$$

$$= (-\hat{x} \cos \theta_{i} + \hat{x} \sin \theta_{i}) G_{0i} \exp(\sim)$$

Anologamente lemos

$$\beta_1 \propto \left(-\frac{2}{2}\cos\theta_1 + \frac{2}{2}\sin\theta_1\right) \times \hat{\gamma} = \left(\hat{\chi}\cos\theta_1 + \hat{\chi}\sin\theta_1\right)$$
 $\beta_2 \ll \left(\frac{2}{2}\cos\theta_1 + \frac{2}{2}\sin\theta_2\right) \times \hat{\gamma} = \left(-\frac{2}{2}\cos\theta_1 + \frac{2}{2}\sin\theta_2\right)$ 

Aqui vomos utilitar a condição de contorno definido em chosse onde consideramos a componente tonegenial continua na interface isto é,

for isso,

O musmo para o compo intensado de mognética.

$$\hat{z} \times \left( \frac{\beta_2}{\mu_7} - \frac{\beta_1}{\mu_1} - \frac{\beta_1}{\mu_1} \right) \Big|_{z=0} = 0$$

supomos estro p. = p2 = 1. (Meios não unoguitilos!) Portonto

Resolvendo o sistema:

Logo

Dos définités dos voeficieles de Fresnell

$$\Gamma_{12s} = \frac{G_{01}}{G_{01}} = \frac{n_1 \cos \theta_2 - n_2 \cos \theta_2}{n_2 \cos \theta_2 + n_1 \cos \theta_2}$$

Transmissar:

$$t_{12s} = \frac{G_{02}}{t_{01}} = \frac{2n_1 \cos \theta_1}{n_2 \cos \theta_2 + n_1 \cos \theta_1}$$

