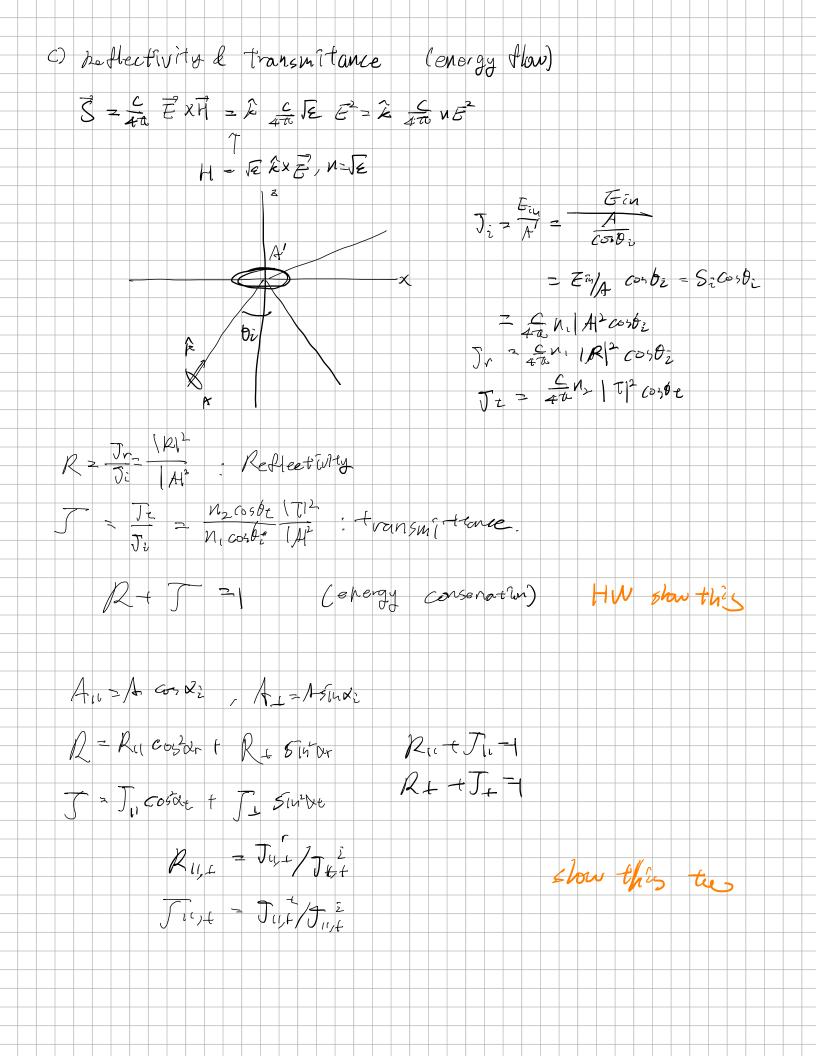


Boundary condition from Maxwell's equation. $\hat{N}_{12} \times (\vec{B}_{2} - \vec{G}_{1}) = 0 \quad \hat{N}_{12} - (\vec{D}_{3} - \vec{D}_{1}) = 0$ $\hat{N}_{12} \times (\vec{H}_{3} - \vec{H}_{1}) = 0 \quad \hat{N}_{12} \cdot (\vec{B}_{3} - \vec{B}_{1}) = 0$ & Snell's law (= + = Kn = Ro 7 on Z=0) $T_{ln} = \frac{\sum N_{1} \cos \theta_{2}}{N_{2} \cos \theta_{2} + n_{1} \cos \theta_{1}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2} + \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} + \sum \frac{2 \sin \theta_{1} \cos \theta_{2}}{\sin \theta_{1} \cos \theta_{2}} +$ 25 inte cost 1 2 5 inte cost 1 = [ton(Or Oe)/ton(DitOt)] An Ru = = - $\sin(\theta_2 - \theta_2)/\sin(\theta_2 + \theta_2)$ An RL = Note 1 $0 \le \theta_i + \theta_t \le \pi$, $-\frac{\pi}{2} \le \theta_i - \theta_t \le \frac{\pi}{2}$ $Sin(\theta_i t\theta_i) \geq 0$, $Cos(\theta_i - \theta_e) > 0$ 2. reflected wave Num > 0270c > Rt At - phase Sitt a R11, A11 Various cases \$ 2+10+ > t1/2 RIL RAY : pherse dial, te 3. Transmited wave: along the same phase as the Incident. 4. A plane of incidence Au = Acusuz, A = 2A 57 moz ten V2 = At , com xr = Ry ten xe = Tu 6 2 62 5 76, 0 (DE 271/2 (tan Nr) Z (Fan Nz) ten x 2 | < | tonoi



 $R_{11} = \frac{\tan^{2}(\theta_{2} - \theta_{2})}{\tan^{2}(\theta_{1} + \theta_{2})} = \frac{\sin(2\theta_{2})\sin(2\theta_{2})}{\sin^{2}(\theta_{1} + \theta_{2})\cos^{2}(\theta_{2} - \theta_{2})}$ i) Breuster angle Di+Q+ = 10/2, tan (Oi+Oe) -00, R11 =0, J11 21 N. 5mbi=125inde -> Canb 3 =12m, Dr 256.40' for glass invisible. 76, 00 68 18-