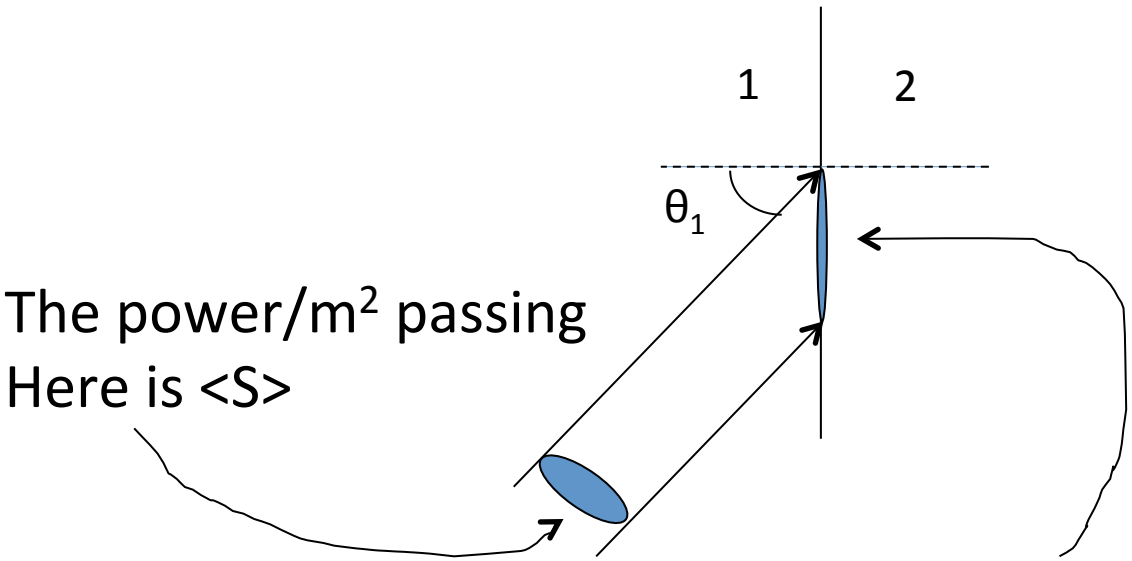
9.69



The power/m^2 passing
Here is <S>

What is the power/m^2 striking the boundary wall?

A) Still <S> B) <S> cosθ_1 C) <S> /cosθ_1

D) Something else! (sinθ_1 or cos$^2\theta_1$ or cosθ_2, or …)

We have a traveling wave solution satisfies $\vec{\tilde{E}}(\vec{r},t) = \vec{\tilde{E}}_0 e^{i(\tilde{k}\, z - \omega t)}$

where the (complex) wave vector

$\tilde{k}^2 = \omega^2 \mu\varepsilon + i\,(\omega\mu\sigma)$

True (A) or False (B): This traveling wave is “transverse”.

(Or C) I have no good idea what that means)