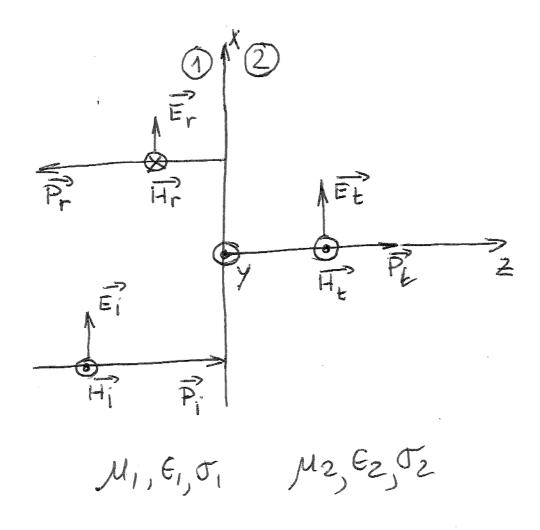
INCIDENCIA NORMAL, CASO GENERAL



$$\vec{E}_{i} = \hat{\chi} \vec{E}_{i,1} e^{\hat{\chi}_{i}^{2}} \qquad \text{con } \hat{\chi}_{i} = \hat{\chi}_{i+1} + \hat{\mu}_{i}$$

$$\vec{E}_{r}^{2} = \hat{\chi}_{E_{r,1}} e^{\hat{\chi}_{i}^{2}}$$

EL CAMPO TOTAL EN EL MEDIO (1)

EL XEINE 812 + XEINE 812

TOTAL EN EL MEDIO (1)

ES ANALOGO AL CASO VISTO DIEL PERFECTO -

Fit =
$$\hat{X}$$
 Et1 \hat{e}^{82}
 $\hat{H}_{t} = \hat{Y} \frac{\text{Et}_{1}}{22} \hat{e}^{82}$

DONDE

$$Z_{z} = \int \frac{Jw\mu_{z}}{\sqrt{12+Jw\epsilon_{z}}} \qquad \mathcal{J}_{z} = \int \frac{Jw\mu_{z}(\sqrt{12+Jw\epsilon_{z}})}{\sqrt{12+Jw\epsilon_{z}}}$$

EL COEFIENTE DE REFLEXION ES:

Y EL COEFICIENTE DE TRANSMISIÓN ES:

POR LO TANTO

APLICANDO LAS CONDICIONES DE BORDE EN Z=0.

$$\begin{cases} E_{i1} + \Gamma E_{i1} = E_{i1} = E_{i1} T \\ E_{i1} - E_{i1} \Gamma = E_{i1} T \\ E_{i1} - E_{i1} \Gamma = E_{i1} T \\ E_{i2} = E_{i1} T \\$$

SEOBTIENE

$$T = \frac{Et1}{Ei1} = \frac{27}{22+21}$$
 $T = \frac{22-21}{22+21}$

ANALOGAMENTE AL CASO DE DIEL PERF. AUNQUE AQUIZZ SERAN COMPLEJAS

Como
$$e^{x_1 z} - \tilde{e}^{x_1 z} = 2 \operatorname{senh}(x_1 z) = -2j \operatorname{sen}(j x_1 z)$$

$$1 + \Gamma = T$$

ANALOGAMENTE EL CAMPO MAGNÉTICO:

como exiz+exiz=2 cosh(xiz)=2 cos(jxiz)

EL CAMPO EN EL MEDIO 2

LOS VECTORES DE POINTING SON

$$\frac{\overrightarrow{P}_{1}^{+} = (\widehat{x} E i 1 \overline{e}^{x_{1} 2}) \times (\widehat{y} E i 1 \overline{e}^{x_{1} 2})}{\overrightarrow{P}_{1}^{+} = (\widehat{x} \times \widehat{y}) E i 1 \overline{e}^{2x_{1} 2}}$$

$$\frac{\vec{P}_{1}}{\vec{P}_{2}} = (\hat{x} E_{r_{1}} e^{\hat{x}_{1} 2}) \times (-\hat{y} E_{r_{1}} e^{\hat{x}_{1} 2})$$

$$\frac{\vec{P}_{2}}{\vec{P}_{2}} = (\hat{x} E_{r_{1}} e^{\hat{x}_{1} 2}) \times (-\hat{y} E_{r_{1}} e^{\hat{x}_{1} 2})$$