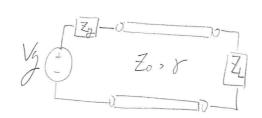
$$V(z) = V_{io} = V_{ro} = V_{ro} = V_{ro} = V_{ro}$$



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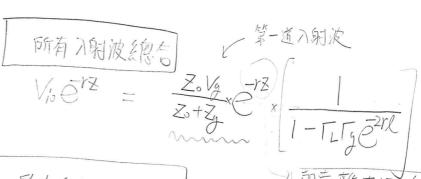
$$\frac{Z_{0}V_{g}}{Z_{0}+Z_{g}} \times \left[1+\Gamma_{L}\Gamma_{g}\overline{C}^{2}rl+\Gamma_{L}^{2}\Gamma_{g}^{2}\overline{C}^{4}rl\right]$$

$$= \frac{Z_{0}V_{g}}{Z_{0}+Z_{g}} \times \frac{1}{1-\Gamma_{L}\Gamma_{g}\overline{C}^{2}rl}$$

$$V(z) = \frac{I}{2}(z_{L}+z_{0})e^{rz^{2}} + \frac{I_{L}}{2}(z_{L}-z_{0})e^{rz^{2}}$$

$$= \frac{I}{2}(z_{L}+z_{0})e^{z} \times \left[1 + \frac{z_{L}-z_{0}}{z_{0}+z_{0}}e^{-2rz^{2}}\right]$$

$$= V_{i0}e^{-rz} \times \left[1 + \left[\frac{e^{-2rz^{2}}}{z_{0}+z_{0}}e^{-2rz^{2}}\right]\right]$$



所有反射波線后

Vro er = ZoVa x [_ -2rl rz Zo+Zg x 1-[[gerl x e x e]

朝泰能負载的方向

$$V(z) = V_1(z) + V_r(z)$$

$$= V_0 e^{-rz} + V_0 e^{rz}$$

所有入射波船總約

$$\frac{R_{o}V_{g}}{R_{o}+Z_{g}} = \frac{1}{1-\Gamma_{L}\Gamma_{g}} \times \left[\frac{1}{1-\Gamma_{L}\Gamma_{g}} + \frac{1}{2}\frac{1}{2}\frac{1}{2}\right]$$

$$\frac{V_{g}}{Z_{g}+R_{o}} = \frac{1}{2}\times \left[\frac{1}{1-\Gamma_{L}\Gamma_{g}} + \frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\right]$$

所有反射波的總利

$$(P_{av})_{i} = \frac{1}{2} \text{Re} \left[V_{i}(z) I_{i}^{*}(z) \right]$$

$$=\frac{1}{2}Re\left\{\begin{array}{c}R_{0}\sqrt{\frac{V_{2}}{R_{0}+Z_{2}}}=i\beta x\sqrt{\frac{1}{1-\Gamma_{L}\Gamma_{2}}\tilde{c}^{2}i\beta l}}\times\left[\frac{V_{2}}{R_{0}+Z_{2}}\right]^{\frac{1}{2}}\times\left[\frac{V_{2}}{R_{0}+Z_{2}}\right]^{\frac{1}{2}}\times\left[\frac{1}{1-\Gamma_{L}\Gamma_{2}}\tilde{c}^{2}i\beta l}\right]\right\}$$

$$= \frac{R_0}{2} \left| \frac{V_9}{R_0 + Z_9} \times \frac{1}{1 - I_L I_9 e^{-2jRe}} \right|^2$$

$$V(z) = \frac{R_0 V_2}{R_0 + Z_2} \times e^{i\beta z} \times \left[1 + \Gamma_L e^{i2\beta z}\right] \times \left[\frac{1}{1 - \Gamma_L \Gamma_2 e^{i2\beta L}}\right]$$

$$I(z) = \frac{V_2}{R_0 + Z_2} \times e^{i\beta z} \times \left[1 - \Gamma_L e^{i2\beta z}\right] \times \left[\frac{1}{1 - \Gamma_L \Gamma_2 e^{i2\beta L}}\right]$$

$$P_{av} = \frac{1}{Z} Re \left[V_1 \times \frac{1}{R_0 + Z_2}\right] \times e^{i\beta z} \times \left[1 + \Gamma_L e^{i2\beta z}\right] \times \left[\frac{1}{1 - \Gamma_L \Gamma_2 e^{i2\beta L}}\right]$$

$$= \frac{R_0}{2} \left| \frac{V_0}{R_0 + Z_0} \times \frac{1}{1 - |I_L|^2} \right|^2 \times \left(1 - |I_L|^2 \right)$$

$$\frac{1}{R^{2}} \times e^{i\beta z} \times \left[1 + \Gamma_{L} e^{i2\beta z}\right] \times \left[\frac{1}{1 - \Gamma_{L} g e^{i2\beta z}}\right] \times \left[\frac{1}{1 - \Gamma_{L} g e^$$