EET-01 Ex. Aula 10-01 Igpor Caldeira Magalhaes

$$Z_0 = re^{(8w_0)} = D |Z_0| = |r| \cdot |e^{(8w_0)}| = |r| = r , lago$$

$$X(z) = \frac{1}{Z(1-(\frac{z}{z_0})^{-1})} + \frac{1}{Z(1-(\frac{z}{z_0})^{-1})} =$$

$$= \frac{1-2.*27 + 1-2.027}{2(1-2.027)(1-2.*27)} = \frac{2-27.(2.0+2*)}{2(1-2.027)(1-2.*27)} =$$

$$= \frac{2 - 2r\left(\frac{e^{8W_0} + e^{-8W_0}}{2}\right)z^{-1}}{2(1 - z_0 z^{-1})(1 - z_0 z^{-1})} = \frac{1 - r \cdot cos(w_0)z^{-1}}{(1 - z_0 z^{-1})(1 - z_0 z^{-1})}$$

$$X(z) = \frac{1 - r \cos(w_0) z^{-1}}{(1 - r e^{-i \delta w_0} z^{-1})(1 - r e^{-i \delta w_0} z^{-1})}, |z| > r$$