

7) Ganancia unilateral máxima

$$G_{U\max} = \frac{1}{1 - |S_{11}|^2} \cdot \frac{1}{1 - |S_{22}|^2} \cdot |S_{21}|^2$$

$$|S_{11}| = 0,7 \angle 90^\circ \rightarrow 0,7 \rightarrow 20 \text{ dB}$$

9) $K > 1$ estable; $K < 1$ inestable

8) $\Gamma_S \in \Gamma_{\text{opt}}$ y

$\Gamma_{\text{substituyes}}$

$$\Gamma_L = \left(S_{22} + \frac{S_{12} \cdot S_{21} \cdot \Gamma_S}{1 - S_{11} \cdot \Gamma_S} \right)^*$$

$$\Gamma_L = 0,893 \angle 30^\circ$$

$$\Gamma_{\text{opt}} = 0,7 \angle 90^\circ$$