

$$\text{Eqn } S_{\text{in}} = \text{polar}(0.367, -15.454)$$

$$\text{Eqn } S_{\text{out}} = \text{conj}(S_{22} + S_{21} * S_{12} * S_{\text{in}} / (1 - S_{11} * S_{\text{in}}))$$