Eqn coupling_coeff = 1

Eqn Yn_shunt = sqrt(1 / coupling_coeff)

Eqn Yn_serial = sqrt((1 + coupling_coeff) / coupling_coeff)

Eqn S_theor = -1 / Yn_serial * {{0, 0, j, Yn_shunt}, {0, 0, Yn_shunt, j}, {j, Yn_shunt, 0, 0}, {Yn_shunt, j, 0, 0}}

S_theor(1, 1)	S_theor(1, 2)	S_theor(1, 3)	S_theor(1, 4)
<-infinity> / 0.000	<-infinity> / 0.000	-3.010 / -90.000	-3.010 / -180.000