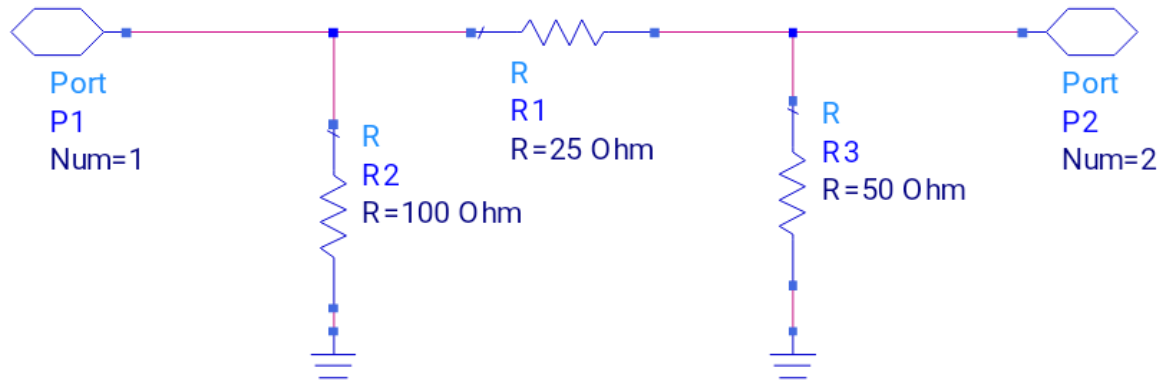


ECE 435/ECE 534

Project#2

Due Feb 13, 2024

1) Using ADS, determine the S-parameters matrix for the following network assuming it is being fed by a 50-ohm transmission line. (Simulate from 1-10GHz).



2) Is this network reciprocal? Provide brief explanation.

3) What is the insertion loss (power loss) of this network?

4) [ECE 534 only] Plot S21 in dB. What can you observe from the frequency response of this network and what does it tell you about its bandwidth?