Assignment 10

Electrical Systems

1. Given the following configuration, determine the appropriate equations for a LCC network.

2. Determine the admittance matrix of the network in terms of the parameters given.

3. Calculate the power output of the network for the given input voltages.

4. Analyze the steady-state response of the network to a step change in the input voltage.

5. Design a filter to achieve a desired frequency response.

6. Implement a control system to regulate the network's output power.