

ECE 831 - HOMEWORK SET # 8 - 30 PTS

- A) IS THERE SOMEWAY TO MAGNITUDE AND FREQUENCY SCALE AN LC-ONEPORT INTO AN RL-ONEPORT?
- B) DETERMINE THE PROPERTIES OF RL-ONEPORTS.
- C) DEVELOP ALGORITHMS FOR FIRST AND SECOND FOSTER, FIRST, SECOND, AND THIRD CAUER.

UNDER WHAT CONDITIONS ARE SOME OF THE CAUER ELEMENTS PRESENT OR NOT PRESENT.

HOW MANY ELEMENTS ARE IN A CANONICAL RL-ONEPORT GIVEN k INTERNAL CRITICAL FREQUENCIES?

- D) MAKE UP AN EXAMPLE WITH AT LEAST 4 ROOTS TO ILLUSTRATE YOUR RESULTS ABOVE.