EE 481/581 Microwave Engineering (Fall 2024) Homework 7 Wednesday, October 16, 2024

- 1) 4.4
- 2) 4.7a
- 3) 4.9
- 4) 4.11
- 5) 4.14
- 6) For [*S*] of problem 4.18, find [*S*'] when ports 3 and 4 are separately connected with lossless matched TLs of electrical length 45°. No changes at ports 1 and 2.
- 7) **EE 581 only:** Find [S] for the pi-network of problem 4.7a.
- 8) **EE 581 only:** Evaluate [S] for the pi-network of problem 4.7a when $Z_A = -j50 \Omega$, $Z_B = 100+j40 \Omega$, and $Z_0 = 50 \Omega$.

Due Monday, October 21, 2024.