

EE 481/581 Microwave Engineering (Fall 2024)

Homework 9

Friday, November 1, 2024

- 1) 7.6 Draw labeled sketch of design. **EE 481:** Design only. **EE 581:** Design and $[S]$ -parameter magnitudes.
- 2) 7.7 Do T resistive attenuator only.
- 3) 7.8 Also, draw labeled sketch of design.
- 4) 7.10 Also, draw labeled sketch of design.
- 5) Using the $[S]$ -matrix, show that the equal split Wilkinson power divider is lossless.
- 6) Design and sketch (e.g., Figure 7.14) a 5-way equal-split Wilkinson power divider for a $50\ \Omega$ system.

Due Wednesday, November 6, 2024.