

ECEn 665
Antennas and Propagation for Wireless Communication

Homework #8

Due Feb. 8, 2023 at the beginning of class (may be turned in after class for half credit)

1. Problem 3.10 [Comparison of loop and dipole]
2. Problem 3.12 [Patch antenna]
3. Choose an electrically small antenna. Compute the lossless Q bound for the antenna and estimate the theoretical bandwidth limit. If possible, compare the theoretical bound to the actual antenna bandwidth.