

EE 483/583 Antennas for Wireless Communications (Spring 2017)

Homework 1

Friday, January 20, 2017

- 1) 2.4ef
- 2) Plot polar radiation patterns for the U of 2.4ef (both unitless and in dB) in the elevation planes coinciding with the x - z plane (i.e., wrt θ when $\phi = 0$ & 180°). Attach copy of any work done (e.g., copy of command window, m-file, ...)
- 3) 2.7 for U given in (a)
- 4) 2.11 for U given in (f).
- 5) Plot polar radiation patterns for U of 2.11(f) (both unitless and in dB) in the elevation planes coinciding with the y - z plane (i.e., wrt θ when $\phi = 90^\circ$ ~~& 270°~~) and the azimuthal plane (i.e., wrt ϕ when $\theta = 90^\circ$). Attach copy of any work done (e.g., copy of command window, m-file, ...)
- 6) 2.12 for U given in (f).
- 7) 2.17
- 8) 2.29
- 9) EE 583 only- 2.20

Due Wednesday, January 25, 2017.