

EE 532 ANTENNA THEORY & APPLICATIONS

Home work # 1

1. Solve the following problems from the text book.
Chapter 2 (3, 4, 7(c,f), 11).
2. Use the 2-D antenna pattern plotter, and the directivity program, to plot the radiation patterns specified by the following functions:

i. $U(\theta, \phi) = B_0 \cos^3 \theta$

ii. $U(\theta, \phi) = \cos^4 \theta \sin^2 \phi$

You may use the Fortran programs given in the disk accompanying the textbook, or you may develop the programs using MATLAB.