Scilab Manual for Antenna Wave Propagation by Mr Darshan Modi Others VESIT[1]

Solutions provided by
Mr. Prarthan Mehta
Electronics Engineering
Dharmsinh Desai University

February 12, 2026

[1]Funded by a grant from the National Mission on Education through ICT, http://spoken-tutorial.org/NMEICT-Intro. This Scilab Manual and Scilab codes written in it can be downloaded from the "Migrated Labs" section at the website http://scilab.in

Contents

List of Scilab Solutions 3

1 Radiation pattern of half-lambda dipole 4

List of Experiments

Solution 1.1 Radiation Pattern of Half Wave Dipole 4

Experiment: 1

Radiation pattern of half-lambda dipole

Scilab code Solution 1.1 Radiation Pattern of Half Wave Dipole

```
1 //radiation pattern for the half wave dipole antenna
2
3 phi=linspace(0,2*%pi,1000);
4 rad=abs(sin(phi));
5 k=1; //the multipliccation factor depends on the
     current and the length of the dipole antenna
6 polarplot(phi,k*rad)
7
8
9 //Input Constant==> k-->Depends on the current and
     the length of the dipole
```