
Fundamentals of Electromagnetic Fields and Waves: I

Fall 2005, EE 30348, Electrical Engineering, University of Notre Dame

Assignment 9

Due date: **Thursday, November 17th.**

Please attach this sheet on top of your solutions. Sketch figures wherever necessary.

1) **Gauss's law and Boundary Conditions:**

Iskander: Problem 3.23.

2) **Electric and Magnetic Fields in Materials:**

Iskander: Problem 3.20, Problem 3.21.

3) **Electromagnetic wave propagation in non-conductive media:**

Iskander: Problem 3.11, Problem 3.19.

4) **Electromagnetic wave propagation in conductive media, deep-sea communication:**

Iskander: Problem 3.14, Problem 3.15, Problem 3.18, Problem 3.24.