PHYC 511: Electrodynamics

Spring 2019

Homework Assignment #3

(Due February 25, 2019)

- 1- Problem 4.7, parts (a) and (b), Jackson.

 2- Problem 4.8, parts (a) and (c), Jackson.

 3- A conducting sphere of radius a carrying charge Q is surrounded by a dielectric shell of thickness b-a and dielectric constant ϵ/ϵ_0 . What is the \vec{E} field everywhere? Find the induced bound charges at the interfaces.
- **5-** Problem 5.3, Jackson.