

Physics 721 Homework 6

Assigned: Tues. 2/22/05

Due: Mon. 3/1/05

1. Suppose a charge q is placed between two grounded infinite parallel conducting planes placed distance d apart (just as in Jackson problem 1.13 on pg 52). Use method of images to find the potential everywhere between the planes. (Assume the charge q is a distance z from one of the planes.)
2. Jackson 2.9 (pg. 88)
3. Jackson 2.23 (pg.92)
4. Find the electrostatic potential due to a line charge of density q located between two semi-infinite grounded planes intersecting at an angle α .