

PHY505 - Classical Electrodynamics

Homework No. 2

Due: Friday, Sept. 20, 2002

1. Jackson, Problem 1.1

Since “a conductor by definition contains charges capable of moving freely under the action of applied electric fields,” at electrostatic equilibrium there are no electric fields in the interior of a conductor.

2. Jackson, Problem 1.3

3. Jackson, Problem 1.5