

Physics 161, spring 2015

HW # 4

Due Thursday 12 February by 4 pm.

I will be in my office on Tuesday afternoon.

There are only six problems in this set.

1. P&M 2.34. Finding the extremum of a charge distribution
2. P&M 2.50. Dividing the charge.
3. P&M 2.58. Energy of a charged shell.
4. P&M 3.9. Grounding a shell
5. P&M 3.13. Image charge for a grounded spherical shell.
(Remember the law of cosines.)
6. P&M 3.59. A coaxial capacitor.