

Homework #6

Due at 6pm on Friday, Mar 13th, 2015

Reading: Chaps 26 and 27.

1. HRW Chap 25, Question 10.
2. Two parallel-plate capacitors, $6.0 \mu\text{F}$ each, are connected in parallel to a 10 V battery. One of the capacitors is then squeezed so that its plate separation is 50.0% of its initial value. Because of the squeezing, (a) how much additional charge is transferred to the capacitors by the battery and (b) what is the increase in the total charge stored on the capacitors?
3. HRW Chap 25, P14.
4. HRW Chap 25, P15.
5. HRW Chap 25, P27.
6. HRW Chap 25, P39.
7. HRW Chap 25, P48.
8. HRW Chap 25, P50.
9. HRW Chap 26, P32.