

Chapter 19 Study Guide

Prior to lecture:

1. Read Ch. 19 in textbook
2. Convert the following:
 - a. 10.0 eV to Joule
 - b. 50.0 Joule to eV.
3. On a sheet of paper, work through example 19.3.
4. Answer conceptual questions 3, 4, 8 and 11 at the end of the chapter.
5. Define the following terms:
 - a. Electric potential and Potential difference
 - b. Electric potential energy
 - c. Electron volt
 - d. Electric potential in an uniform electric field
 - e. Electric potential due to point charge
 - f. Equipotential lines
 - g. Dielectric strength and Dielectric constant
 - h. Parallel plate capacitor
 - i. Capacitors in series and parallel
 - j. Energy stored in capacitors

After the lecture

1. Review notes from lecture
2. Redo all example problems from lecture
3. Reread text
4. Work through example problem 19.1, 19.7, 19.10 and 19.11.
5. Redo all recitation worksheet problems
6. Answer conceptual questions 5, 7, 13, 15, 19, and 22 of the text.
7. Complete homework for chapter 19.
8. For extra practice, try the following problems from chapter 19 of the textbook: 3, 5, 6, 9, 11, 13, 14, 17, 18, 22, 23, 24, 28, 30, 31, 33, 35, 36, 37, 40, 43, 44, 47, 53, 57, 60, 61, 64 and 67.