

## Chapter 7 Study Guide

Prior to lecture:

1. Read Ch. 18 in textbook
2. Define the following terms:
  - a. Static Electricity
  - b. Conservation of charge
  - c. Conductors and Insulators
  - d. Coulomb's forces and Coulomb's law
  - e. Electric field
  - f. Test charge
  - g. Electric potential
  - h. Current
  - i. Ohm's law
  - j. Electric power
  - k. Direct current and alternating current
  - l. RMS current and voltage
3. Answer conceptual questions 1, 2, 3, 10, 19 and 27 on pages 244 and 245 of the text.

After the lecture:

1. Review notes from lecture.
2. Redo all example problems from lecture.
3. Work through example problem 7.1, 7.2, 7.4, 7.7, 7.9, 7.10 and 7.11.
4. Answer conceptual questions 7, 22, 23, 24, 28, 25, 26, 27 and 31 of the text.
5. For extra practice, try the following problems from chapter 7 of the textbook: 4, 7, 8, 12, 21, 51, 60, 63, 66, 74, 86 and 87.