

Chapter 20 Study Guide

Prior to lecture:

1. Read Ch. 20 in textbook
2. Work through example problem 20.1 and 20.2.
3. On a sheet of paper, complete the “Take-Home Experiments” on pages 705 and 717.
4. Answer conceptual questions 1, 3, 6, and 10 at the end of the chapter.
5. Define the following terms:
 - a. Electric current
 - b. Ohm’s Law
 - c. Resistance
 - d. Resistivity
 - e. Drift velocity
 - f. Temperature coefficient of resistivity
 - g. Electrical Power
 - h. Direct current
 - i. Alternating current
 - j. RMS current
 - k. RMS voltage
 - l. Short circuit
 - m. Nerve conduction
 - n. Electrocardiogram

After the lecture

1. Review notes from lecture.
2. Redo all example problems from lecture.
3. Reread text
4. Work through example problem 20.3, 20.5, 20.9, and 20.10.
5. Redo all recitation worksheet problems
6. Answer conceptual questions 7, 11, 14, 16, and 20 of the text.
7. Complete homework for chapter 20
8. For extra practice, try the following problems from chapter 20 of the textbook: 1, 5, 7, 8, 12, 17, 20, 22, 23, 25, 26, 40, 42, 44, 48, 50, 53, 59, 60, 62, 72, 77, 79, and 90.