PHYS 212 Spring 2013 Study Guide for Test #3     Chapters 25, 26, & 27

Test will consist of regular questions and problems.

1. Chapter Reading.

2. Practice WileyPlus assignments.

**Chapter 25: Capacitors**
Charge:  Stored energy: 

Capacitance of a Parallel plate capacitor: $C=\frac{Kϵ\_{0}A}{d}$

**Capacitors in Parallel and in Series** The **equivalent capacitances** *C*eq of combinations of individual capacitors connected in parallel and in series can be found from:

 

**Chapter 26:** Current (i), current density (J), resistance (R), and power (P):

   

  

7. Estimating the cost of electricity.

8. Semiconductors and Superconductors.

**Chap 27:** 

Ohm’s law: v = iR Power:   

**Resistors in Series and in Parallel:**



Analyzing circuits using junction rule and loop rule.