

Lecture 15

Pre-Lecture Preparation (due within the first 5 minutes of class):

Read pages 833 – 845 in the textbook (Serway 9th edition) and do the following:

- 1) Quick Quizzes: 28.1 – 28.4
- 2) Book Objective Questions (p. 855): 2, 8, and 9
- 3) Book Problems (p. 856): none

Goals for the Lecture:

- 1) Understand power dissipated in electrical devices and how to use it in solving problems
- 2) Understand EMF and internal resistance of batteries and power supplies
- 3) Be able to use series and parallel rules for resistor to solve circuit problems
- 4) Be able to use Kirchhoff's Rules to solve circuit problems

Post-Lecture Study Guide (I do not collect this):

Review the worksheets or other lecture material within 24 hours (preferably the same day as the lecture) to reinforce the ideas. Review the pre-lecture questions to make sure you understand them.

Do problems:

Ch 28: Conceptual Questions: 1

Ch 28: Objective Questions: 3, 6, 10, and 11

Ch 28: Problems: 35

Continue with the additional recommended study problems from chapter 28