

Lecture 21

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

- Read pages 909 – 914 in the textbook (Serway 9th edition) and do the following:
 - 1) Quick Quizzes: 30.2 – 30.4
 - 2) Book Objective Questions (p. 923): 2 and 4
 - 3) Book Problems (p. 925): none

Goals for the Lecture:

- 1) Understand how two long parallel wires exert forces on one another and be able to calculate the force
- 2) Understand Ampere's Law and be able to use it to find the magnetic field from certain current carrying wire configurations (straight infinite wires and solenoids)

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 30: Conceptual Questions: 4, 6, and 11

Ch 30: Objective Questions: 9 and 10

Ch 30: Problems: 31

Continue with the additional recommended study problems from chapter 30