

Lecture 19

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

- Read pages 883 – 889 in the textbook (Serway 9th edition) and do the following:
 - 1) Quick Quizzes: 29.3 – 29.4
 - 2) Book Objective Questions (p. 893): 12 and 13
 - 3) Book Problems (p. 895): 46

Goals for the Lecture:

- 1) Understand how current carrying wires are affected by magnetic fields and be able to solve problems involving magnetic forces on current carrying wires
- 2) Understand current loops are affected by magnetic fields
- 3) Know how to calculate and solve problems involving net force on current loops in B fields
- 4) Know how to calculate and solve problems involving torque on current loops in B fields

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 29: Conceptual Questions: 3

Ch 29: Objective Questions:

Ch 29: Problems: 48 and 51

Continue with the additional recommended study problems from chapter 29