Goals for the Lecture:

- 1) Understand that charged particles typically move in circular paths when crossing magnetic field lines
- 2) Be able to solve problems involving centripetal force and circular motion in magnetic fields
- 3) Understand how these forces can be used in velocity selectors, mass spectrometers, and other applications
- 4) Understand how current carrying wires are affected by magnetic fields and be able to solve problems involving magnetic forces on current carrying wires
- 5) Understand current loops are affected by magnetic fields
- 6) Know how to calculate and solve problems involving net force on current loops in B fields
- 7) Know how to calculate and solve problems involving torque on current loops in B fields



















