

HW6 9/8/06

1. Name five things, around you in which there is at least a magnet (permanent or electric)
2. A superconductive wire forming a loop of radius 5 cm. The loop is charged with a current flowing inside. The current is 2000 A. Assuming in vacuum, what is the magnetic field strength at the center of the loop.
3. A long solenoid with 2000 turns per meter has a current of 0.5 A flowing through it. What is the field strength at the center of the solenoid, assuming vacuum?