Magnetic Fields

For direction of Magnetic Fields created by a wire, see power point slides.

Force on a current Carrying Wire:

F=BIL

F=Force

B=Magnetic Field (Tesla T)

L- Length of the current carrier

1. Current (amps A)

Ex: A 4.14A current is in a uniform magnetic field of 11T. The length of the wire is 0.5m. What is the Magnetic force on the Wire?