

Quiz 21.2B

Two parallel wires are separated by 67.2 cm as shown below. Wire I_3 carries a current of 3.25 Amps. Wire I_6 carries a current of 6.11 Amps.

- a) Find the magnitude and direction of the total magnetic field at point P due to these two wires.
- b) If a proton is located at point P and has a velocity of 3.85×10^6 m/s in a direction into the page, what will be the magnitude and direction of the magnetic force it feels?

