

### Ch 21 HW Quiz #2A

For the arrangement shown below,

- Find the magnitude and direction of the magnetic field at point P due to the two wires  $I_3$  and  $I_4$ .
- If a proton were moving through point P in a direction perpendicular to and into the page with a speed of  $6.5 \times 10^6$  m/s, what would be the magnitude and direction of the magnetic force it feels?

