#### Solutions to Giancoli Recommended Problems - Chapter 20

#### Responses to MisConceptual Questions

- (c) It is common to confuse the directions of the magnetic fields with electric fields and thus indicate
  that the magnetic field points toward or a way from the current. Since the current is flowing into
  the page, the right-hand rule indicates that the magnetic field is in the clockwise direction around
  the current. At point A the field points downward.
- (b) The right-hand rule indicates that the magnetic field is clockwise around the current, so at point B the current is to the left.
- (c) A common misconception is that a force always does work on the object. Since the magnetic force is
  perpendicular to the velocity of the proton, the force acts as a centripetal force, changing the proton's
  direction, but not doing any work and thus not changing its kinetic energy.

#### Solutions to Problems

1. (a) Use Eq. 20-1 to calculate the force with an angle of 90" and a length of 1 meter.

$$F = lfB \sin \theta \rightarrow F/f = lB \sin \theta = (6.40 \text{ A})(0.90 \text{ T}) \sin 90^\circ = [5.8 \text{ N/m}]$$

(6) Change the angle to 35.0°.

$$F/f = IB \sin \theta = (6.40 \text{ A})(0.90 \text{ T}) \sin 35.0^{\circ} = 3.3 \text{ N/m}$$

 The maximum magnetic force as given in Eq. 20—4 can be used since the velocity is perpendicular to the magnetic field.

$$F_{\text{max}} = \text{qrvB} = (1.60 \times 10^{-19} \text{ C})(7.75 \times 10^5 \text{ m/s})(0.45 \text{ T}) = 5.6 \times 10^{-14} \text{ N}$$

By the right-hand rule, the force must be directed to the north.

 The kinetic energy is used to determine the speed of the particles, and then the speed can be used to determine the radius of the circular path, since the magnetic force is causing certripetal acceleration.

$$\begin{split} & \kappa \varepsilon = \frac{1}{2} m v^2 \quad \rightarrow \quad v = \sqrt{\frac{2 \, \kappa \varepsilon}{m}} \qquad q v B = \frac{m v^2}{r} \quad \rightarrow \quad r = \frac{m v}{q B} = \frac{m \sqrt{\frac{2 \, \kappa \varepsilon}{m}}}{q B} = \frac{\sqrt{2m \, \kappa \varepsilon}}{q B} \\ & \frac{r_o}{r_o} = \frac{q B}{\sqrt{2m_o \, \kappa \varepsilon}} = \sqrt{\frac{m_o}{m_o}} = \sqrt{\frac{1.67 \times 10^{-27} \, kg}{9.11 \times 10^{-26} \, kg}} = \boxed{428} \end{split}$$

# **Giancoli Physics Chapter 20 Solutions**

**Douglas Brandt** 

#### **Giancoli Physics Chapter 20 Solutions:**

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