

② Apply  $\vec{F} = q\vec{v} \times \vec{B}$

All of the paths which involve left hand turns are positive particles (path 1); those paths which involve right hand turns are negative particles (path 2 and 4); and those paths which don't turn involve neutral particles.

② (a)  $\vec{F} = -e\vec{v} \times \vec{B}$

Greatest magnitude of  $\vec{F}$  when angle between  $\vec{v}$  &  $\vec{B}$  is  $90^\circ$ .  $F_{\max} = e v B = (1.60 \times 10^{-19})(7.2 \times 10^6)(83 \times 10^{-3}) = 9.6 \times 10^{-14} \text{ N}$   
Least magnitude of  $\vec{F}$  when angle between  $\vec{v}$  &  $\vec{B}$  is  $0^\circ$ .  $F_{\min} = 0$

(b)  $F = e v B \sin \theta = ma$

$$\Rightarrow \theta = \arcsin\left(\frac{ma}{e v B}\right) = \arcsin\left(\frac{7.2 \times 10^6 \times 49 \times 10^{-4}}{1.6 \times 10^{-19} \times 7.2 \times 10^6 \times 83 \times 10^{-3}}\right) = 28^\circ$$

③ (a)  $v = \frac{E}{B} = \frac{1.5 \times 10^8}{0.44} = 3.4 \times 10^8 \text{ m/s}$

(b)   $\vec{B}$  out of page,  $\vec{F}$  upward,  $\vec{v}$  toward right

④ (a)  $F = q v B \sin \theta \Rightarrow v = \frac{F}{q B \sin \theta} = \frac{6.48 \times 10^{-27}}{(1.60 \times 10^{-19})(2.63 \times 10^{-2}) \sin 23^\circ} = 3.94 \times 10^3 \text{ m/s}$

(b)  $K = \frac{1}{2} m v^2 = \frac{1}{2} (1.67 \times 10^{-27}) (3.94 \times 10^3)^2 = 1.30 \times 10^{-16} \text{ J}$

$$K = \frac{1.30 \times 10^{-16} \text{ eV}}{1.60 \times 10^{-19}} = 812 \text{ eV}$$

⑤  $F_g = e v B = (1.60 \times 10^{-19})(2.8 \times 10^7)(30 \times 10^{-6}) = 1.34 \times 10^{-16} \text{ N}$

$$F_g = m g = (1.67 \times 10^{-27})(9.8) = 1.64 \times 10^{-26} \text{ N}$$

$$\frac{F_g}{F_g} = 2.2 \times 10^7$$

$$\frac{F_g}{F_g}$$

⑥  $K = \frac{m v^2}{2} \Rightarrow v = \sqrt{2K/m}$ ,  $V = E d \Rightarrow E = \frac{V}{d}$ ,  $K = e V$

$$v = \frac{E}{B} \Rightarrow B = \frac{E}{v} = \frac{V}{d \sqrt{2K/m}} = \frac{1.0 \times 10^5}{(0.02) \sqrt{2(1.50 \times 10^{-16} \times 10^3)} (9.11 \times 10^{-31})}$$

$$B = 2.6 \times 10^4 \text{ T}$$

# Introduction To Algorithms Chapter 34 Solutions

**M Walker**



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