

P #14

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$$I = 2.40 \text{ A} \quad (+ \times \text{ direction})$$

$$l = .750 \text{ m}$$

$$B = 1.60 \text{ T} \quad (+z \text{ direction})$$

$$F_B = I \cdot l \cdot B$$

$$= (2.40 \text{ A})(.750 \text{ m})(1.60 \text{ T})$$

$$F_B = 2.88 \text{ N}$$

Find direction:

B_{out} (+ z axis)

By RHR #1:

$$F_B \downarrow$$