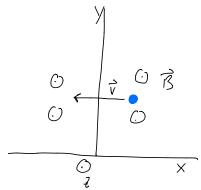
P26:



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

$$= -e(-4 \times 10^{5})(0.27) \times \times \hat{2}$$

$$|\vec{F}| = |1.73 \times 10^{-14} \text{ N}$$

$$\hat{F} = -\hat{y}$$

$$\widehat{F} = q\widehat{v} \times \widehat{B}$$

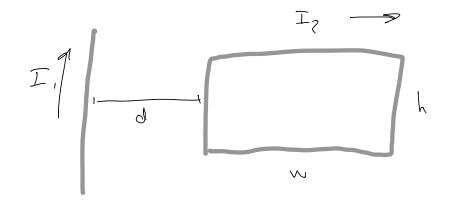
$$\widehat{S} = 70.32\widehat{2}$$

$$\widehat{F} = 0$$

$$(\widehat{2} \times \widehat{2} = 0)$$

$$\hat{F} = (1.8)(0.25)(0.54) \hat{x} = \hat{y}$$

1242.



$$\overline{B} = \frac{U_0 \overline{I}_1}{2\pi C} \otimes$$

$$\vec{B} = - \underbrace{MoI_i}_{ZTTC} \hat{Z}$$

$$\overline{F}_{Left} = \overline{L}_{Z} \overline{L} \times \overline{S}$$

$$\overline{f} = h y$$

$$\overrightarrow{F}_{10f+} = I_{2} h_{y}^{\Lambda} \times \left(-\frac{u_{0}I_{1}}{2\pi d} \hat{z}\right)$$

$$\widehat{F}_{1} = - \underbrace{\text{Mo} \, T_{1} T_{2} \, h}_{2 \, \pi d} \, \times$$

$$\overrightarrow{F}_{right} = I_z(-h\hat{y}) \times \left(\frac{-\mu_0 I_1}{2\pi d+\omega}\hat{z}\right)$$

$$\overrightarrow{F}_{right} = \frac{U \circ T_1 T_2 h}{Z \pi (d + w)} \stackrel{\wedge}{X}$$

$$\widehat{F}_{nut} = \underbrace{M_0 \, I_1 \, I_2 h}_{Z\Pi} \left(\underbrace{J}_{dhw} - \underbrace{J}_{d} \right) \, \widehat{x}$$

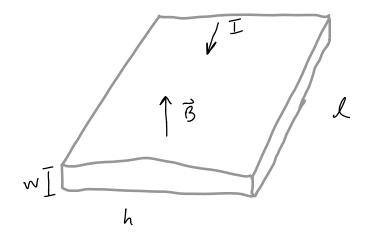
$$F = q(\vec{E} + \vec{1} \times \vec{3}) = 0$$

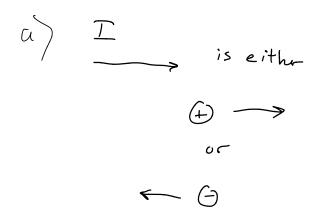
$$\vec{E} + \vec{1} \times \vec{3} = 0$$

$$(-3800 + 0.4 \times 1) + 0.4 \times 1 = 0$$

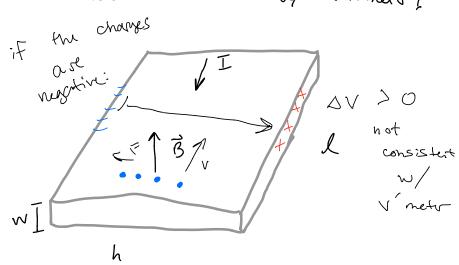
$$(-3800 + 0.4 \times 1) + 0.4 \times 1 = 0$$

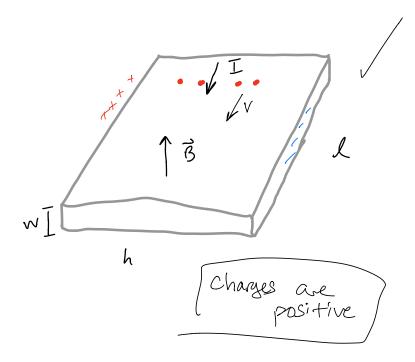
$$V = \frac{3800}{0.4} = 9.5 \times 10^{3} = 0$$





Which one is consistent up voltmotor?





$$|\Delta V_{H}| = vBh$$

$$V = \frac{|\Delta V_{H}|}{Bh} = \frac{2.7 *0^{-4}}{(0.7)(0.08)} = 4.8 \times 10^{-3} \frac{M}{S}$$

$$D = |2| n A V$$

$$0.3 = e n A (4.8 \times 10^{-3})$$

$$A = 0.012 \times 0.8$$

$$n = 4 \times 10^{23} \text{ m}^{-3}$$

e)
$$\overline{L} = \frac{\Delta V}{R}$$

$$2 = \frac{\Delta V}{L} = \frac{0.7^3}{0.3} = 2.4 \Omega$$

$$(\alpha) \overrightarrow{F} = mg \hat{y} + I LB \hat{y}$$

Const $V = P \overrightarrow{F} = 0$

$$mg = ILB$$

$$I = \frac{mg}{BL}$$

$$\mathcal{E} = \mathbf{BLV}, \quad \mathbf{I} = \frac{\mathcal{E}}{R} = \frac{\mathbf{BLV}}{R}$$

$$mg = (\mathbf{RL})^{2} \frac{\mathbf{V}}{R}$$

$$V = \frac{mgR}{(\mathbf{BL})^{2}}$$

$$(\mathbf{BL})^{2}$$

$$\frac{dU}{dt} = mg \frac{dy}{dt} = mgV \subset$$

$$a)$$
 $\Gamma = 0$

b)
$$\varepsilon = Bhv$$
, $\Sigma = Bhv$

$$\widehat{F} = \Sigma LB \hat{x}$$

$$C) \mathcal{E} = \mathcal{I} = 0$$

$$d) E = Bhv, I = Bhv$$

$$\overrightarrow{F} = I \cdot C \cdot \overrightarrow{R}$$

$$e$$
) $\Gamma = 0$