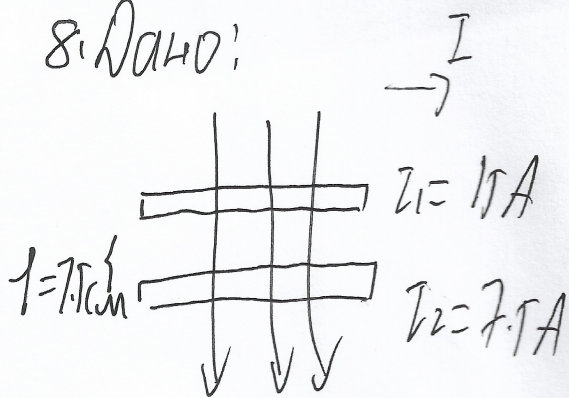


8. Dado:



$$B = 2.4 \times 10^{-4} \text{ T}$$

$$L = 1.8 \text{ m}$$

$F_1, F_2 = ?$

Para  $F_1$ :

Causa  $I_2$  B:

$$\vec{F}_{1B} = F_1' = I_1 B L$$

Causa  $I_1$  B:

$$F_1'' = \frac{\mu_0}{2\pi} \frac{I_1 I_2}{r} \cdot L$$

u  $F_1' \perp F_1''$

$$F_1 = \sqrt{F_1'^2 + F_1''^2} \approx 0.007 \text{ N}$$

Para  $F_2$ :

Causa  $I_2$  B:

$$F_2' = I_2 B L$$

Causa  $I_1$  B:

$$F_2'' = F_1''$$

$$\vec{F}_2 = F_2' \perp F_2'' \Rightarrow$$

$$F_2 = \sqrt{F_2'^2 + F_2''^2} \approx 3.8 \times 10^{-3} \text{ N}$$