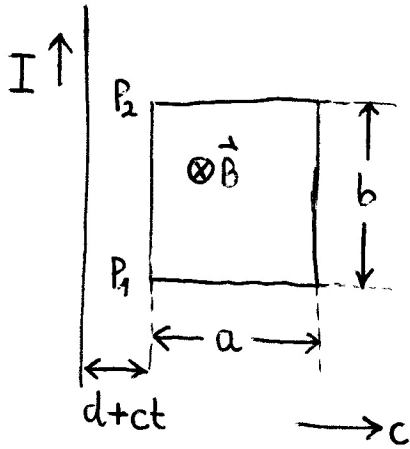


5.)

S: fajlagos ellenállás

$I_2 = ?$ iránya?

A: keresztmetszet



$$B = \frac{\mu_0 I}{2r\pi}$$

$$R = S \frac{\ell}{A}$$

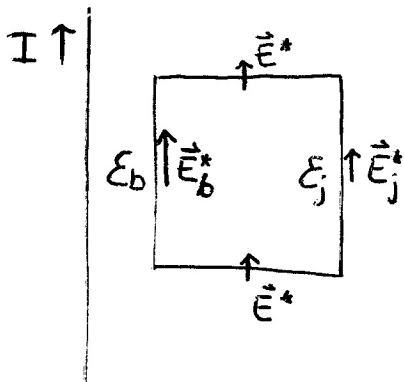
$$\vec{E}^* = \vec{v} \times \vec{B}$$

$$\mathcal{E}_{AB} = \int_A^B \vec{E}^* \cdot d\vec{s}$$

$$I = \frac{\mathcal{E}}{R}$$

$$R = S \frac{2a+2b}{A}$$

$$\vec{v} \perp \vec{B}$$



$$\mathcal{E} = \mathcal{E}_b - \mathcal{E}_j = cb B_b - cb B_j = cb (B_b - B_j)$$

$$\mathcal{E} = cb \left(\frac{\mu_0 I}{2\pi(d+ct)} - \frac{\mu_0 I}{2\pi(d+a+ct)} \right)$$

$$\mathcal{E}_b > \mathcal{E}_j, \text{ mert } B_b > B_j$$

áram ↻

$$I = \frac{\mathcal{E}}{R} = \dots$$

/egyszerűsítés!!!/