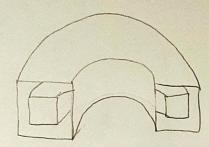
Questos 1 - 96708- ELE 215 - 7/10/20.

$$H_0 = K_0 \text{ and } L H_0 = \frac{1}{2} \text{ if } X \text{ a$$

Questão 2



$$N_i = 500 \text{ E}$$
, $S_i = 3.4^2 \text{ cm}^2$ $C_i = 20.1 \text{ cm}$
 $N_E = 4000 \text{ E}$. $S_E = 2.42 \text{ cm}^2$ $C_E = 20.1 \text{ cm}$

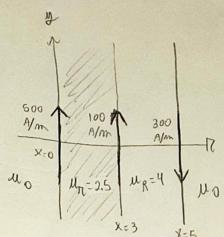
$$\emptyset := \int \vec{B} \cdot d\vec{S} = \int_{Z_{1}}^{Z_{2}} \frac{P_{2}}{2\pi P_{1}} \frac{\mu_{0} I_{1} N_{1} I_{1} I_{1} P_{1} dz - \mu_{0} I_{1} N_{1} I_{1} I_{1} P_{2}}{2\pi P_{1}} \frac{|\vec{Z}_{2} - \vec{Z}_{1}|}{2\pi P_{1}} = \frac{N_{1}^{2} I_{1} I_{2} I_{1}}{2\pi P_{1}} \frac{|\vec{Z}_{2} - \vec{Z}_{1}|}{2\pi P_{1}} \frac{|\vec{Z}_{2} - \vec{Z}_{1}|}{2\pi P_{1}} \frac{|\vec{Z}_{2} - \vec{Z}_{1}|}{2\pi P_{1}} = \frac{N_{1}^{2} I_{2} I_{2} I_{1}}{2\pi P_{1}} \frac{|\vec{Z}_{2} - \vec{Z}_{1}|}{2\pi P_{1}} \frac{|\vec{Z}_{2} - \vec{Z}_{1}|}{2\pi P_{1}} \frac{|\vec{Z}_{2} - \vec{Z}_{1}|}{2\pi P_{1}} \frac{|\vec{Z}_{2} - \vec{Z}_{1}|}{2\pi P_{1}} = \frac{N_{1}^{2} I_{2} I_{2}}{2\pi P_{1}} \frac{|\vec{Z}_{2} - \vec{Z}_{1}|}{2\pi P_{1}} \frac{|\vec{Z}_{2} - \vec{Z}_{1}$$

nutus.

$$M_{12} = \frac{N_1 \mathcal{O}_{12}}{I_2} = \frac{N_1 \mathcal{O}_E}{I_E} = \frac{N_1 \mathcal{M}_0 I_E N_E \mathcal{O}_0 \left(\frac{94}{2}\right) \left(2.4.10^2\right) + 1}{200 I_E}$$

of Volaria calculator apratimodamente





Pora
$$k_0$$
 $\begin{cases} x < 0 : \vec{H} = \frac{1}{2} 500 \text{ oil} \times (-\vec{ax}) = 250 \text{ oil} \end{cases} = 1500 \text{ oil} \times (-\vec{ax}) = 250 \text{ oil} \end{cases}$

Para
$$k_3$$
 $\begin{cases} x(3): \vec{H} = \frac{1}{2} 100 \vec{a_y} \times (-\vec{a_x}) = 50 \vec{a_z} & \frac{\pi}{2} \\ x/3: \vec{H} = \frac{1}{2} 100 \vec{a_y} \times (\vec{a_x}) = -50 \vec{a_z} & \frac{\pi}{2} \end{cases}$

Para
$$K_5$$
 $\begin{cases} X \angle 5 : \vec{H} = \frac{1}{2} 300 (-a\vec{a}) \times (-a\vec{x}) = -150 a\vec{x} \\ X75 : \vec{H} = \frac{1}{2} 300 (-a\vec{y}) \times (a\vec{x}) = 150 a\vec{x} \\ M_m \end{ar}$

Pora 210;

Pono OLXL3:

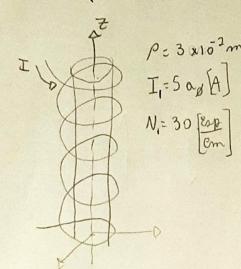
Pora 3LXL5;

Para 5LX:

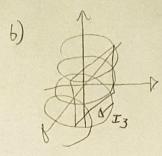




Questão 4



P=30102m B=Mo NII az Região OLP C3 em T=500 A] L interno.



Dipolo mognotico: $M = \int \hat{I} d\hat{S}$ $V = \hat{M} \times \hat{B}$

a) origen: (0,0,0), p=2em, 3=0 = I2=2 ag

Para este ralemade, B=UONI, e como o compo e uniforme F=0,

ed?=IdsxB.

d? = I2 Pdødøøž x MoNI øž = 0 (, m) eskao no mesmo direjato.

(oz 89z=0)

b) I3=3/a,...

da mesma formo o campo e uniferent, ligo Fy: 0, Parkantes:

dでこすがxB; I3 dx dz (-前) x M, I, (可) 中

$$C = \int_{-13}^{0} \left[-I_{3}I_{1}N_{0} + \frac{1}{3}N_{1}x_{1}^{2}N_{1}x_{1}^{2} + \frac{1}{3}N_{1}x_{1}^{2} +$$