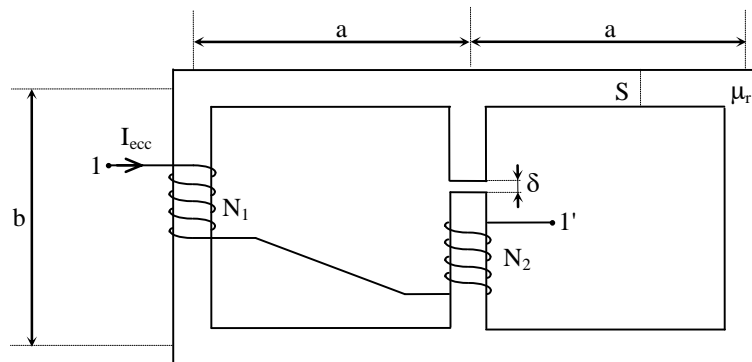


- 1) Calcolare il campo magnetico H_0 al traferro dovuto ad una assegnata corrente di eccitazione I_{ecc} .

$$\left\langle H_0 = 650162,5 \frac{A}{m} \quad \{L = 3,17145 \text{ mH}\} \right\rangle$$

$$N_1 = 100, \quad N_2 = 80, \quad S = 1 \text{ cm}^2, \quad a = 40 \text{ cm}, \quad b = 40 \text{ cm}, \quad \delta = 0,5 \text{ mm}, \quad \mu_r = 2 \cdot 10^3, \quad I_{ecc} = 5 \text{ A}$$



- 2) Calcolare la corrente $i(t)$, risposta con stato zero al gradino $v_g(t) = 10 u(t) \text{ V}$.

$$\left\langle i(t) = \frac{20}{3} \text{ A} \quad \left\{ i_L(t) = \left(\frac{10}{3} + 0t \right) e^{-1000t} - \frac{10}{3} \text{ A}; \quad v_C(t) = \left(\frac{10}{3} + 0t \right) e^{-1000t} - \frac{10}{3} \text{ V} \right\} \right\rangle$$

$$R = 1 \Omega, \quad R_1 = 1/3 \Omega, \quad R_2 = 1/3 \Omega, \quad R_3 = 1/3 \Omega, \quad C = 1 \text{ mF}, \quad L = 1 \text{ mH}$$

