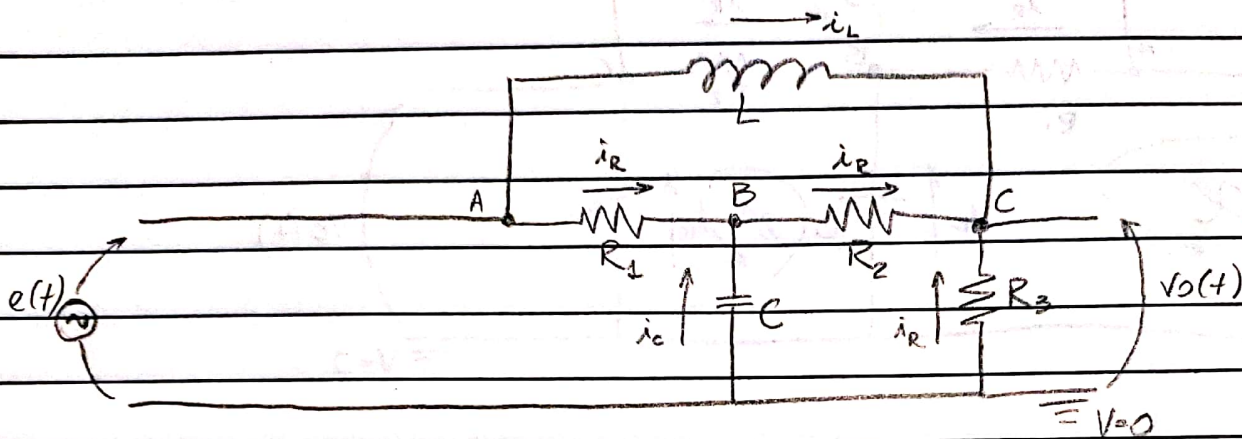


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MÉTODO DOS NÓS



$$\text{Nó B: } \frac{V_b - V_a}{R_1} + V_b \cdot CD - \left( \frac{V_c - V_b}{R_2} \right)$$

$$V_b \left( \frac{1}{R_1} + CD + \frac{1}{R_2} \right) - \frac{V_a}{R_1} - \frac{V_c}{R_2} = 0, \quad V_a = e(t) \text{ e } V_c = v_0(t)$$

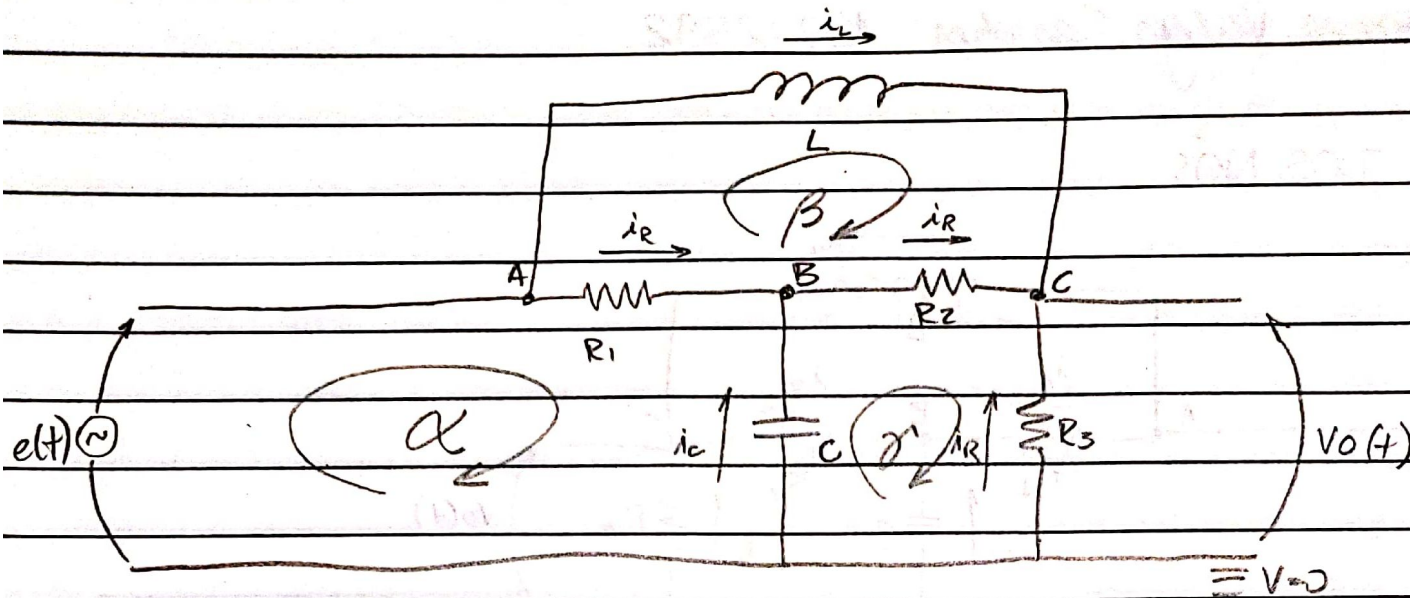
$$V_b \left( \frac{1}{R_1} + CD + \frac{1}{R_2} \right) - \frac{e(t)}{R_1} - \frac{v_0(t)}{R_2} = 0$$

$$\text{Nó C: } \frac{V_c - V_b}{R_2} + \frac{V_c - V_a}{LD} + \frac{V_c}{R_3} = 0$$

$$V_c \left( \frac{1}{R_2} + \frac{1}{R_3} + \frac{1}{LD} \right) - \frac{V_b}{R_2} - \frac{V_a}{LD} = 0$$

$$V_0 \left( \frac{1}{R_2} + \frac{1}{R_3} + \frac{1}{LD} \right) - \frac{V_b}{R_2} - \frac{e(t)}{LD} = 0$$

# MÉTODO DAS MALHAS



Malha  $\alpha$ :  $\alpha = e(t)$

Malha  $\beta$ :  $\beta(R_1 + R_2 + LD) - \alpha R_1 - \delta R_2 = 0$

$\beta(R_1 + R_2 + LD) - e(t)R_1 - \delta R_2 = 0$

Malha  $\delta$ :  $\delta \left( R_2 + R_3 + \frac{1}{CD} \right) - \alpha \cdot \frac{1}{CD} - \beta R_2 = 0$

$\delta \left( R_2 + \frac{1}{CD} \right) + V_0(t) - \alpha \cdot \frac{1}{CD} - \beta R_2 = 0$