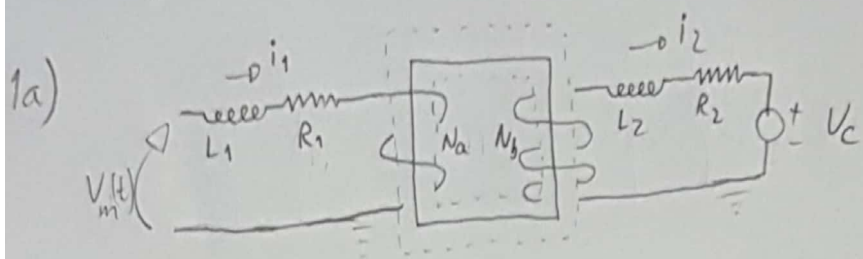


Modelagem - Ex aula (15/09)



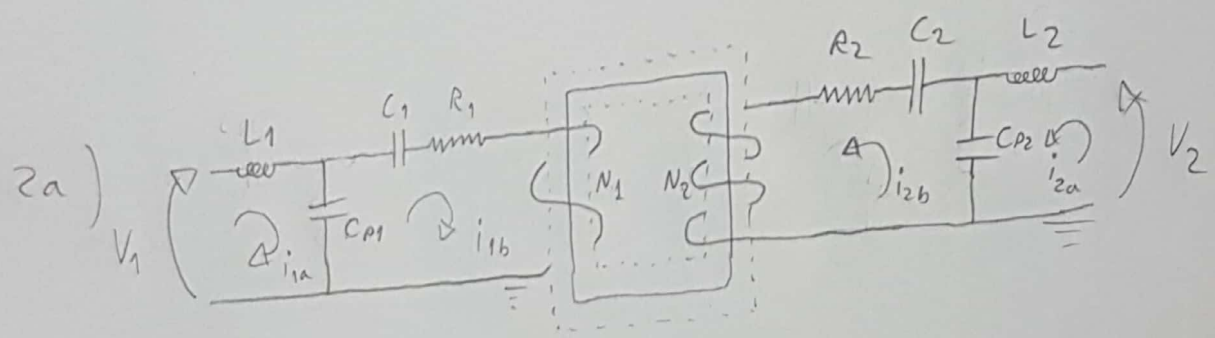
$$i_1(L_1 D + R_1) = V_m - V_1 \quad \frac{V_1}{V_2} = \frac{N_1}{N_2} = n$$

$$i_2(L_2 D + R_2) = V_2 - V_c$$

1b)

$$J_1 \ddot{x}_1 + b_1 \dot{x}_1 = T_m - T_1$$

$$J_2 \ddot{x}_2 + b_2 \dot{x}_2 = T_2 - T_c = \frac{T_1}{n} - T_c$$



$$i_{1a} \left( L_1 D + \frac{1}{C_1 D} \right) - i_{1b} \cdot \frac{1}{C_1 D} = V_1(t)$$

$i_{2b}$  ??