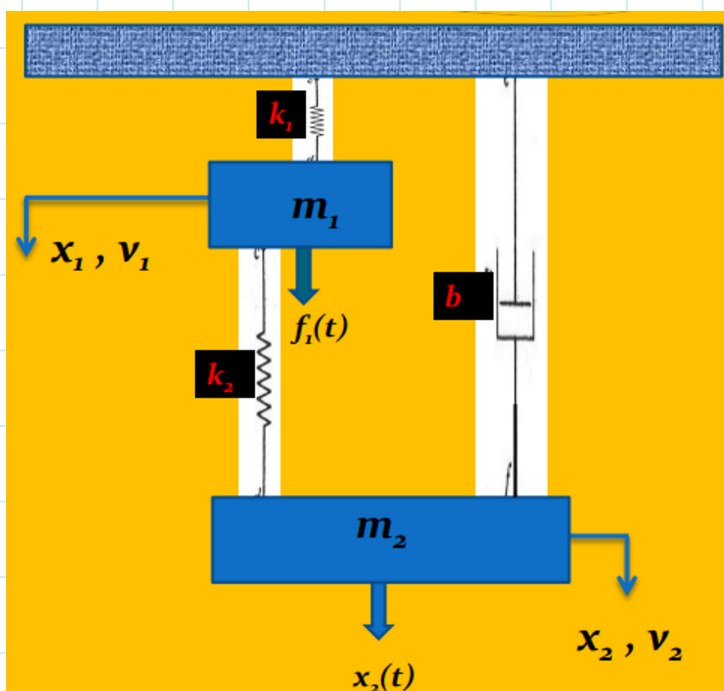


Exercício 2 - Slide analogia tipo 1

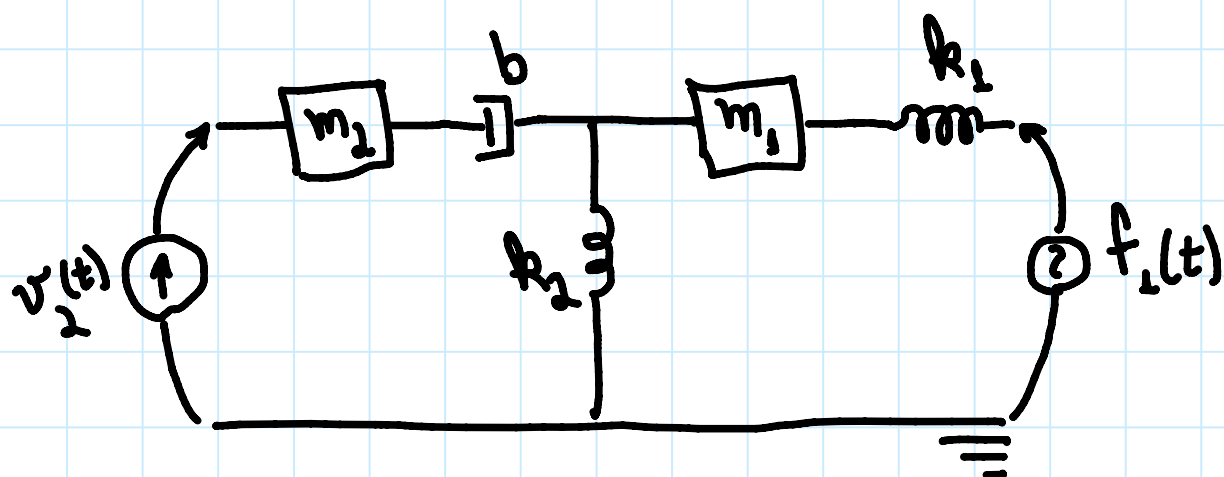
segunda-feira, 4 de outubro de 2021

11:02

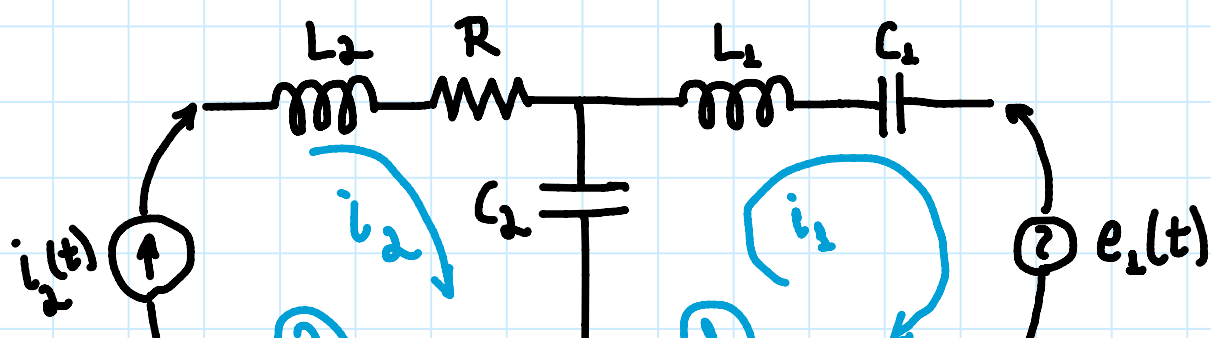
Ex.2

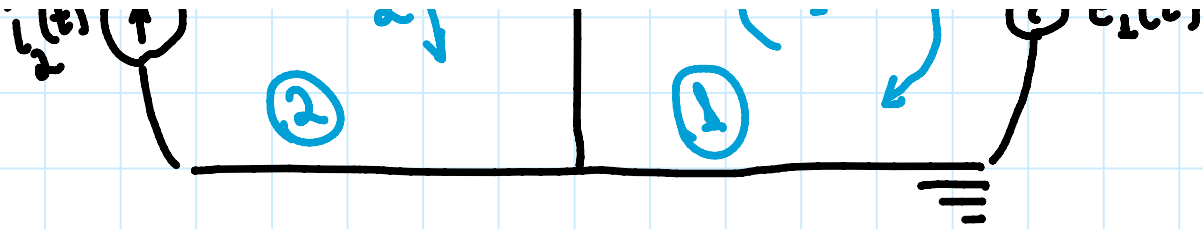


• Circuito mecânico:



• Circuito elétrico equivalente:





• Malha ①:

$$\left(L_1 + \frac{1}{C_1 D} + \frac{1}{C_2 D} \right) i_1 - \frac{1}{C_2 D} i_2 =$$

Analogia tipo I
 \Rightarrow

$$m_1 \ddot{x}_1 + (k_1 + k_2) x_1 = f_2(t) + k_2 x_2$$

• Malha ②:

$$\left(L_2 + R + \frac{1}{C_2 D} \right) i_2 - \frac{1}{C_2 D} i_1 = 0$$

Analogia tipo I
 \Rightarrow

$$m_2 \ddot{x}_2 + b \dot{x}_2 + k_2 x_2 = k_2 x_1$$