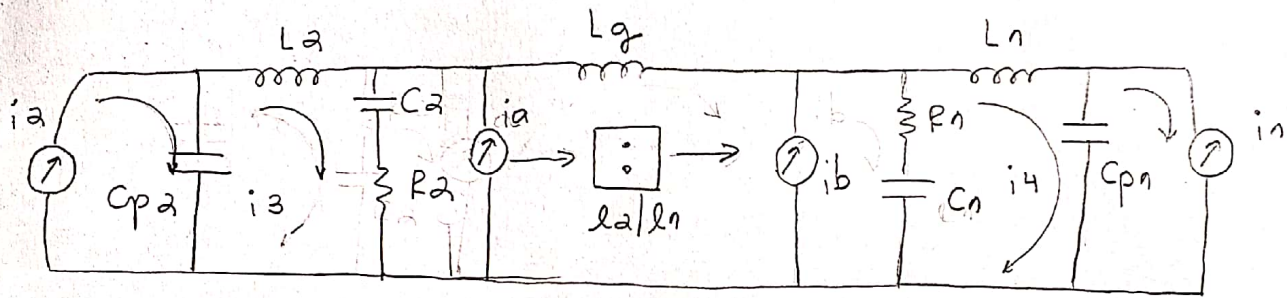
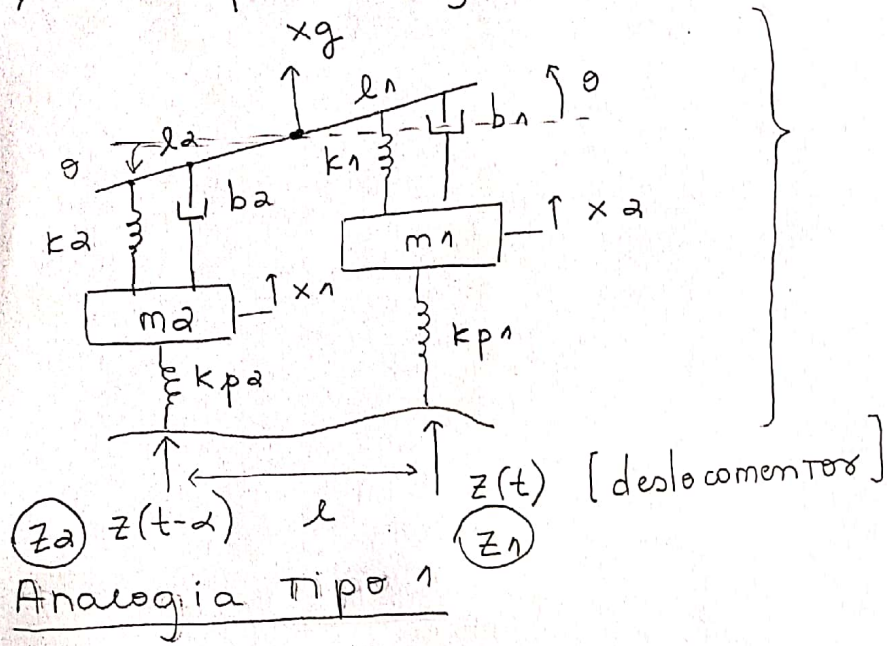


Ex. modelagem - aula 15/09
 Mariana Claudine Pin 9348644

A Resolver por analogia dos transformadores



Equacionamento

$$L_a D i_3 + \frac{(i_3 - i_2)}{C_{p2} D} + R_2 (i_3 - i_2) + \frac{(i_3 - i_2)}{C_2 D} = 0 \quad \left[i_a / i_b = \frac{l_2}{l_1} \right]$$

$$L_n D i_4 + \frac{(i_4 - i_b)}{C_n D} + R_1 (i_4 - i_b) + \frac{(i_4 - i_1)}{C_{p1} D} = 0$$

$$L_g D (i_a - i_b) + \frac{(i_a - i_3)}{C_2 D} + (i_a - i_3) R_2 + \frac{(i_b - i_4)}{C_n D} + (i_b - i_4) R_1 = 0$$

$$i_a - i_b \Rightarrow \theta_g; \quad i_a - i_b = 0$$

$$\left. \begin{aligned} i_b &= l_1 \sin \theta \\ i_a &= l_2 \sin \theta \end{aligned} \right\} \frac{i_a}{i_b} = \frac{l_2}{l_1}$$