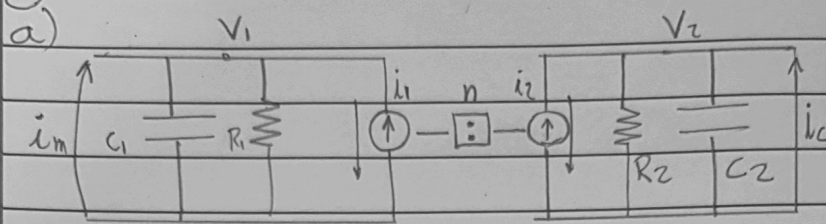


15/09

1



Nó 1

$$V_1(C_1 D + 1/R_1) = i_m - i_1$$

Nó 2

$$V_2(C_2 D + 1/R_2) = i_c - i_2 = i_c - i_1 \cdot n$$

Transformador

$$i_2 = n \cdot i_1$$

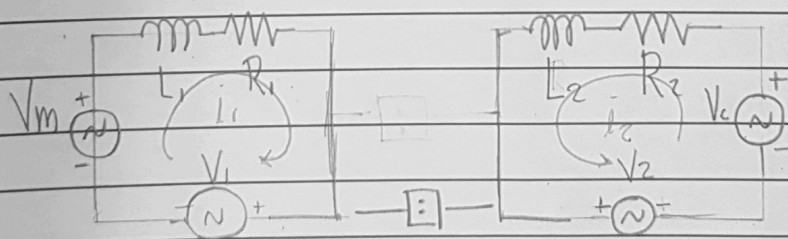
Equações análogas

$$J_1 \dot{\omega}_1 + b_1 \omega_1 = T_m - T_1$$

$$J_2 \dot{\omega}_2 + b_2 \omega_2 = T_c - T_2$$

$$T_2 = T_1 \cdot n$$

b) Analogia tipo 1



Equações elétricas

$$i_1(L_1 D + R_1) = V_m - V_1$$

$$i_2(L_2 D + R_2) = V_c - V_2 \quad \text{e} \quad V_2 = V_1 \cdot n$$

Equações mecânicas

$$J_1 \dot{\omega}_1 + b_1 \omega_1 = T_m - T_1$$

$$J_2 \dot{\omega}_2 + b_2 \omega_2 = T_c - T_2$$

$$T_2 = T_1 \cdot n$$