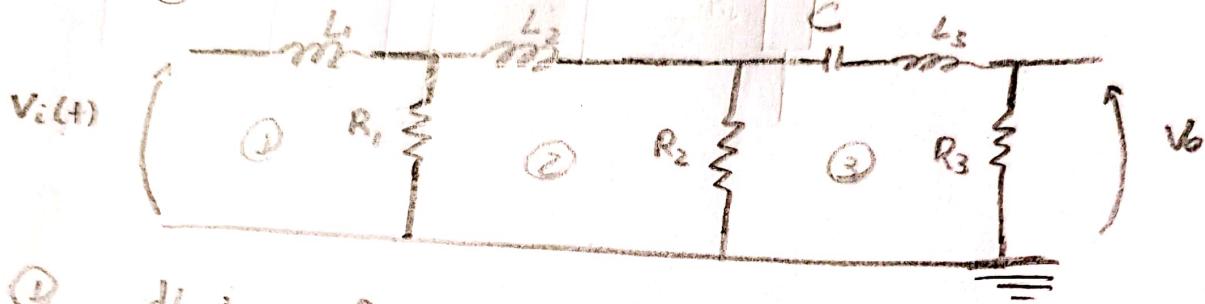


a) Analogia tipo I

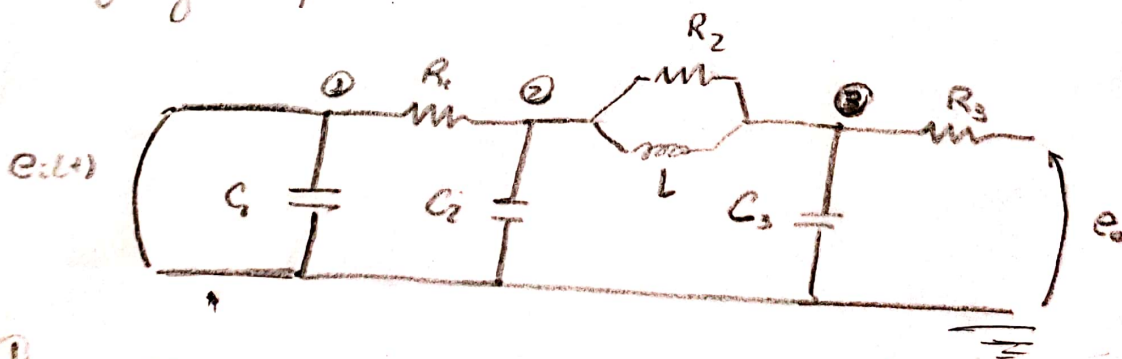


$$\textcircled{1} \quad \frac{dL_1 i_1}{dt} + R_1 i_1 - R_2 i_2 = V_i(t)$$

$$\textcircled{2} \quad i_2 R_2 + \frac{dL_2 i_2}{dt} + i_2 R_2 - i_1 R_1 - i_3 R_3 = 0$$

$$\textcircled{3} \quad i_3 R_3 + \int C i_3 dt + \frac{dL_3 i_3}{dt} + i_3 R_3 - i_2 R_2 = V_o$$

b) Analogia tipo II



$$\textcircled{1} \quad \frac{dC_1 V_1}{dt} + \frac{V_1}{R_1} - \frac{V_2}{R_2} = e_i(t)$$

$$\textcircled{2} \quad \frac{V_2}{R_2} + \frac{dC_2 V_2}{dt} + \frac{V_2}{R_2} + \int \frac{V_2}{L} dt - \frac{V_1}{R_1} - \frac{V_3}{R_3} - \int \frac{V_3}{L} dt = 0$$

$$\textcircled{3} \quad \frac{V_3}{R_3} + \int \frac{V_3}{L} dt + \frac{dC_3 V_3}{dt} + \frac{V_3}{R_3} - \frac{V_2}{R_2} - \int \frac{V_2}{L} dt = e_o$$