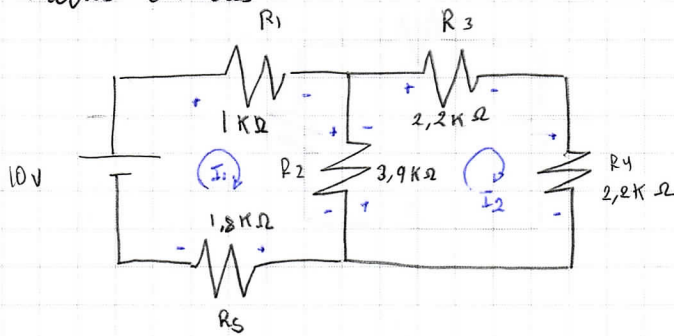


Metodo de mallas LVR

Malas cerradas



Malla 1 / Trayectoria 1

$$10 - 1000I_1 - 3900(I_1 - I_2) - 1800I_1 = 0$$

$$10 - 1000I_1 - 3900I_1 + 3900I_2 - 1800I_1 = 0$$

$$10 - 6700I_1 + 3900I_2 = 0$$

Malla 2 / Trayectoria 2

$$-3900(I_2 - I_1) - 2200I_2 - 2200I_2 = 0$$

$$-3900I_2 + 3900I_1 - 2200I_2 - 2200I_2 = 0$$

$$-8300I_2 = -3900I_1$$

→ Por la malla antes trabajado tenemos

$$I_1 = 2.05 \cdot 10^{-3} \text{ [A]}$$

$$I_1 = 1.87 \cdot 10^{-3} \text{ [A]}$$

$$I_2 = 9.63 \cdot 10^{-4} \text{ [A]}$$

$$V_{R1} = (2.05 \cdot 10^{-3})(1000)$$

$$V_{R2} = (1.87 \cdot 10^{-3})(3900)$$

$$V_{R1} = 2.05 \text{ [V]}$$

$$V_{R2} = 4.24 \text{ [V]}$$

$$V_3 = (9.63 \cdot 10^{-4})(2200)$$

$$V_{R4} = V_3$$

$$V_3 = 2.12 \text{ [V]}$$

$$V_{R4} = 2.12 \text{ [V]}$$

$$V_{RS} = (2.05 \cdot 10^{-3})(1800)$$

$$V_{R1} = 2.05 \text{ [V]}$$

$$V_{R2} = 4.24 \text{ [V]}$$

$$V_{R3} = 2.12 \text{ [V]}$$

$$V_{R4} = 2.12 \text{ [V]}$$

$$V_{RS} = 3.69 \text{ [V]}$$

$$V_{RS} = 3.69 \text{ [V]}$$