

Problem 3.18

Using mesh analysis, find the voltage, V , across the current source in Figure P3.18.

Solution:

Circuit shown in Figure P3.18.

Find:

Voltage across the current source.

Analysis:

The analysis for the mesh currents is exactly the same as Problem 3.17.

Solving,

$$i_3 = 0.778\text{A}$$

The voltage across the current source is exactly the same as the voltage across the series combination of the 3Ω and 2Ω resistor

$$\text{or } V = i_3(3 + 2) = 3.89\text{V}$$

Problem 3.19

- 3.19 a. For the circuit of Figure P3.19, write the mesh equations in matrix form. Notice the form of the $[R]$ and $[V]$ matrices in the $[R][I] = [V]$, where

$$[R] = \begin{bmatrix} r_{11} & r_{12} & r_{13} & \cdots & r_{1n} \\ r_{21} & r_{22} & \cdots & \cdots & r_{2n} \\ r_{31} & & r_{33} & & \\ \vdots & & & \ddots & \\ r_{n1} & r_{n2} & \cdots & \cdots & r_{nn} \end{bmatrix} \quad \text{and} \quad [V] = \begin{bmatrix} V_1 \\ V_2 \\ \vdots \\ V_n \end{bmatrix}$$

- b. Write the matrix form of the mesh equations again by using the following formulas:

$$r_{ii} = \sum \text{resistances around loop } i$$

$$r_{ij} = -\sum \text{resistances shared by loops } i \text{ and } j$$

$$V_i = \sum \text{source voltages around loop } i$$

Solution:

Circuit shown in Figure P3.19.

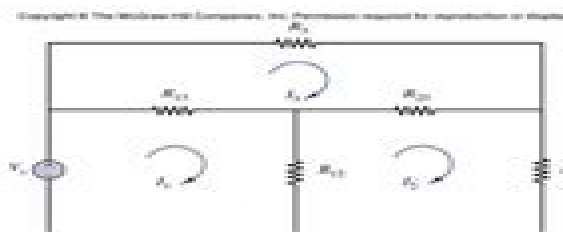
Find:

Mesh equation in matrix form.

Analysis:

$$a) \begin{bmatrix} R_{12} + R_{13} & -R_{12} & -R_{13} \\ -R_{12} & R_{12} + R_2 + R_{23} & -R_{23} \\ -R_{13} & -R_{23} & R_3 + R_{13} + R_{23} \end{bmatrix} \begin{bmatrix} I_1 \\ I_2 \\ I_3 \end{bmatrix} = \begin{bmatrix} V_s \\ 0 \\ 0 \end{bmatrix}$$

- b) same result as a).



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Annelies Wilder-Smith



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