

Example 3.12

Problem 12 by Node-Voltage Method

Problem 3.12 Apply nodal analysis to find the node voltage V in the circuit in Fig. 3.12. Use the information in Subproblem 3.10 as a hint.



Subproblem 3.10 Apply nodal analysis to find V in the circuit in Fig. 3.12.

$$\begin{aligned} \frac{10 - V}{20} + \frac{V}{10} + \frac{V - 10}{20} &= 0 \\ \Rightarrow \left(\frac{1}{20} + \frac{1}{10} + \frac{1}{20}\right)V &= \frac{10}{20} + \frac{10}{20} \\ V &= 10 \text{ V} \end{aligned}$$

Now, combine 3 and substitute V in:

$$I = \frac{10 - 10}{20} = \frac{100 - 100}{200} = 0 \text{ A}$$

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Robert L. Boylestad, Louis Nashelsky



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