

Techniques of Circuit Analysis

Assignment Problems

QAP 4.1: (a) Analyze the circuit, obtaining the nodal voltages and the branch voltages.



The node voltages equations are:

$$10 = \frac{V_1}{10} + \frac{V_2}{20} + \frac{V_3}{10} + \frac{V_4}{20} \quad \text{or } 10 = 0$$

$$20 = \frac{V_1}{20} + \frac{V_2}{10} + \frac{V_3}{20} + \frac{V_4}{10} \quad \text{or } 10$$

Using these equations, we obtain:

$$10 = \frac{V_1}{10} + \frac{V_2}{20} + \frac{V_3}{10} + \frac{V_4}{20} \quad \text{or } 10$$

$$20 = \frac{V_1}{20} + \frac{V_2}{10} + \frac{V_3}{20} + \frac{V_4}{10} \quad \text{or } 10$$

Therefore, we can find V_1 and V_2 as:

$$V_1 = 10 \text{ V, } V_2 = 20 \text{ V, } V_3 = 10 \text{ V, } V_4 = 20 \text{ V}$$

QAP 4.2: (a) Analyze the circuit, obtaining the nodal voltages and the branch voltages.

QAP 4.3: (a) Analyze the circuit, obtaining the nodal voltages and the branch voltages.

Techniques Of Circuit Analysis Solution Manual

Patrick Vollmar



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