

$$\frac{V_0 - V_2}{R_2} + \frac{V_0}{R_0} = 0 \quad (\text{Eq. 4})$$

And finally:

$$V_2 = V_0 + 4 \quad (\text{Eq. 5})$$

Solving yields:

$$V_0 = 526.32 \text{ mV}$$

$$P_L = \frac{V_0^2}{R_0} = 69.25 \text{ mW}$$

Problem 3.13

(a) For the circuit of Figure P3.13, write the node equations necessary to find voltages V_1 , V_2 , and V_3 . Note that $G = 1/R = \text{conductance}$. From the results, note the interesting form that the matrices $[G]$ and $[I]$ have taken in the equation $[G][V] = [I]$ where

$$[G] = \begin{bmatrix} g_{11} & g_{12} & g_{13} & \cdots & g_{1n} \\ g_{21} & g_{22} & \cdots & \cdots & g_{2n} \\ g_{31} & & \ddots & & \\ \vdots & & & \ddots & \\ g_{n1} & g_{n2} & \cdots & \cdots & g_{nn} \end{bmatrix} \quad \text{and} \quad [I] = \begin{bmatrix} I_1 \\ I_2 \\ \vdots \\ I_n \end{bmatrix}$$

(b) Write the matrix form of the node voltage equations again, using the following formulas:
 $g_{ii} = \Sigma \text{ conductances connected to node } i$
 $g_{ij} = -\Sigma \text{ conductances shared by nodes } i \text{ and } j$
 $I_i = \Sigma \text{ all source currents into node } i$

Solution:

Known quantities:

Circuit shown in Figure P3.13.

Find:

- Voltages
- Write down the equations in matrix form.

Analysis:

a) Using conductances, apply KCL at node 1:

$$(G_1 + G_{12} + G_{13})V_1 - G_{12}V_2 - G_{13}V_3 = I_s$$

Then apply KCL at node 2:

$$-G_{12}V_1 + (G_2 + G_{12} + G_{23})V_2 - G_{23}V_3 = 0$$

and at node 3:

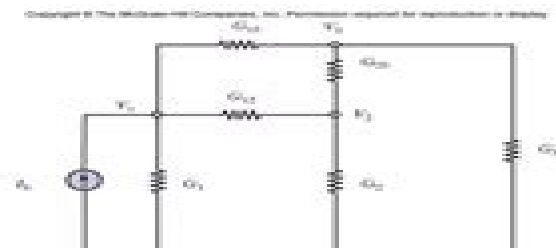
$$-G_{13}V_1 - G_{23}V_2 + (G_3 + G_{13} + G_{23})V_3 = 0$$

Rewriting in the form

$$[G][V] = [I]$$

3.11

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Table of Contents Solutions Manual Rizzoni Electrical Chapter 18

1. Understanding the eBook Solutions Manual Rizzoni Electrical Chapter 18
 - The Rise of Digital Reading Solutions Manual Rizzoni Electrical Chapter 18
 - Advantages of eBooks Over Traditional Books
2. Identifying Solutions Manual Rizzoni Electrical Chapter 18
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solutions Manual Rizzoni Electrical Chapter 18
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solutions Manual Rizzoni Electrical Chapter 18
 - Personalized Recommendations
 - Solutions Manual Rizzoni Electrical Chapter 18 User Reviews and Ratings
 - Solutions Manual Rizzoni Electrical Chapter 18 and Bestseller Lists
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 - Highlighting and Note-Taking Solutions Manual Rizzoni Electrical Chapter 18
 - Interactive Elements Solutions Manual Rizzoni Electrical Chapter 18
- 8. Staying Engaged with Solutions Manual Rizzoni Electrical Chapter 18
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solutions Manual Rizzoni Electrical Chapter 18
- 9. Balancing eBooks and Physical Books Solutions Manual Rizzoni Electrical Chapter 18
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solutions Manual Rizzoni Electrical Chapter 18
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Solutions Manual Rizzoni Electrical Chapter 18
 - Setting Reading Goals Solutions Manual Rizzoni Electrical Chapter 18
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solutions Manual Rizzoni Electrical Chapter 18
 - Fact-Checking eBook Content of Solutions Manual Rizzoni Electrical Chapter 18
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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