

setting all the independent sources to zero and then turning each one on individually. Total  $v_{a-a''}$  is the sum of the individual components. With  $I_1$  set to zero (open circuit), it follows that

$$v_{a-a''} = \frac{R_1 + R_2}{R_1 + R_2 + R_3} V_1$$

Note that  $R_4$  does not affect  $v_{a-a''}$ , because it appears directly in parallel with  $V_1$ .

With  $V_1$  set to zero (short circuit), current division yields the current through  $R_3$ , so that

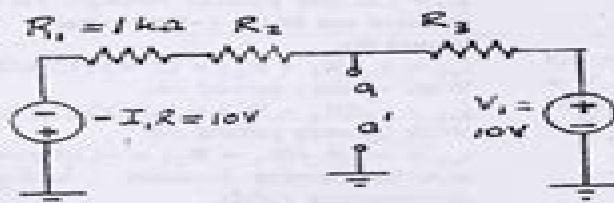
$$v_{a-a''} = -I_1 \frac{R_3}{R_1 + (R_2 + R_3)}$$

Combining  $v_{a-a''}$  and  $v_{a-a''}$  yields

$$v_{a-a''} = v_{a-a''} + v_{a-a''}$$

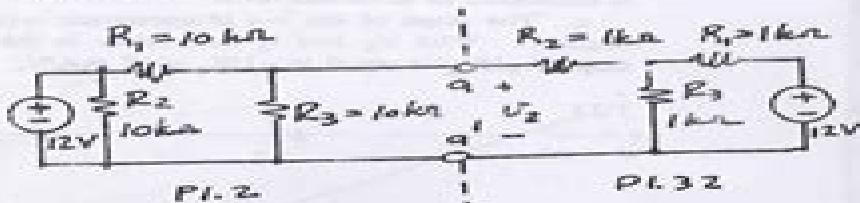
$$\frac{(R_1 + R_2)V_1}{R_1 + R_2 + R_3} - \frac{(R_1 R_3)I_1}{R_1 + R_2 + R_3}$$

1.31 First find the Thévenin equivalent of everything to the left and to the right of terminals  $a-a''$ . Looking to the left yields  $v_{Th1} = I_1 R_1 = 10 \text{ V}$  and  $R_{Th1} = R_1 + R_2$ . ( $R_2$  does not contribute to  $v_{Th1} = v_{OC}$ , since no current flows through it when  $I_1$ ,  $R_1$ , and  $R_2$  are disconnected as a unit from the circuit). Similarly, looking to the right yields  $v_{Th2} = V_1 = 10 \text{ V}$  and  $R_{Th2} = R_3$ . Note that  $R_4$ , which appears directly in parallel with a voltage source, has no effect on  $v_{Th1}$  or  $R_{Th1}$ . Here is a diagram of the equivalent circuit as seen at terminals  $a-a''$ :

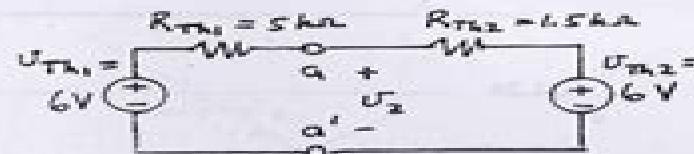


Clearly, given the balanced nature of the circuit,  $v_{a-a''}$  can be made zero if we choose  $R_2$  and  $R_3$  such that  $R_1 + R_2 = R_3 \Rightarrow R_3 = R_1 = 1 \text{ k}\Omega$ . Choice of  $R_4$  is arbitrary.

1.32 Shown below is the entire circuit with both parts connected. The objective is to find  $v_2$ .



As a first step, the Thévenin equivalent of each half of the circuit is taken, as shown below:



Now, using superposition, the value of  $v_2$  can easily be computed:

$$v_2 = \frac{R_{Th2}}{R_{Th1} + R_{Th2}} v_{Th1} + \frac{R_{Th1}}{R_{Th1} + R_{Th2}} v_{Th2}$$

$$= \frac{1.5 \text{ k}\Omega}{6.5 \text{ k}\Omega} (6 \text{ V}) + \frac{5 \text{ k}\Omega}{6.5 \text{ k}\Omega} (6 \text{ V}) = 6 \text{ V}$$

This result should be evident by inspection anyway, since a Thévenin source of value 6 V is connected on both sides of the circuit.

1.33 Shown below is the entire circuit with both parts connected. The objective is to find  $v_2$ .



# Microelectronic Circuits 6th Solution Manual

**Ensheng Dong**

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## **Table of Contents Microelectronic Circuits 6th Solution Manual**

1. Understanding the eBook Microelectronic Circuits 6th Solution Manual
  - The Rise of Digital Reading Microelectronic Circuits 6th Solution Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Microelectronic Circuits 6th Solution Manual
  - 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 Microelectronic Circuits 6th Solution Manual
  - User-Friendly Interface

4. Exploring eBook Recommendations from Microelectronic Circuits 6th Solution Manual
  - Personalized Recommendations
  - Microelectronic Circuits 6th Solution Manual User Reviews and Ratings
  - Microelectronic Circuits 6th Solution Manual and Bestseller Lists
5. Accessing Microelectronic Circuits 6th Solution Manual Free and Paid eBooks
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  - Microelectronic Circuits 6th Solution Manual Enhanced eBook Features
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  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Microelectronic Circuits 6th Solution Manual
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  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Microelectronic Circuits 6th Solution Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Microelectronic Circuits 6th Solution Manual
  - Setting Reading Goals Microelectronic Circuits 6th Solution Manual
  - Carving Out Dedicated Reading Time

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  - Fact-Checking eBook Content of Microelectronic Circuits 6th Solution Manual
  - Distinguishing Credible Sources
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  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
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