

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

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

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

$$v_{a-a'} = \frac{(R_1 + R_2)V_1}{R_1 + R_2 + R_3} - \frac{(R_1 R_3)I_1}{R_1 + R_2 + R_3}$$

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  $v_{Th} = I_1 R_1 = 10$  V and  $R_{Th} = R_1 + R_2$ . ( $R_2$  does not contribute to  $v_{Th} = v_{OC}$ , 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  $v_{Th} = V_1 = 10$  V and  $R_{Th} = R_3$ . Note that  $R_4$ , which appears directly in parallel with a voltage source, has no effect on  $v_{Th}$  or  $R_{Th}$ . 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  $R_1 + R_2 = R_3 \Rightarrow R_3 - R_1 = 1$  kΩ. 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:

$$\begin{aligned} v_2 &= \frac{R_{Th2}}{R_{Th1} + R_{Th2}} v_{Th1} + \frac{R_{Th1}}{R_{Th1} + R_{Th2}} v_{Th2} \\ &= \frac{1.5 \text{ k}\Omega}{6.5 \text{ k}\Omega} (6 \text{ V}) + \frac{5 \text{ k}\Omega}{6.5 \text{ k}\Omega} (6 \text{ V}) = 6 \text{ V} \end{aligned}$$

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 And Devices Horenstein Solution Manual

**Robert L. Boylestad, Louis Nashelsky**



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