setting all the independent sources to zero and then turning each one on individually. Total v_{k-n} is the sum of the individual components. With l_1 set to zero (open circuit), is follows that

$$V_{a=a1} = \frac{R_1 + R_2}{R_1 + R_2 + R_3} V_1$$

Note that R_a does not affect v_{a-a1} , because it appears directly in parallel with V_1 .

With V set to zero (short circuit), current division yields the current through R3, so that

$$v_{s-s2} = -I_1 - \frac{R_1}{R_1 + (R_2 + R_3)} - R_3$$

Combining v_{n-1} and v_{n-2} yields $v_{n-1} = v_{n-1}$, $v_{n-2} = v_{n-1}$

$$(R_1 + R_2)V_1 = (R_1R_3)I_1$$

 $R_1 + R_2 + R_3 = R_1 + R_2 + R_3$

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 $v_{Th} = I_1R_1 = 10 \text{ V}$ 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 $v_{Th} = V_1 = 10 \text{ V}$ 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_{*-*} can be made zero if we choose R_2 and R_3 such that $R_1 + R_2 = R_3 \Rightarrow R_3 - R_1 = 1$ k Ω . Choice of R_4 is arbitrary.

1.32 Shown below is the entire circuit with both parts connected. The objective is to find v₂.



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



Now, using superposition, the value of v₂ 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 Thevenin 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 .

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web jan 1 2012 $\,$ in this paper we present a design and simulation of an efficient solar charge controller this solar charge controller works with a pwm controlled dc dc converter for battery charging

solar charge controller with maximum power point tracking for hindawi - Dec 28 2021 web dec 16 2019 the scc is designed based on the arduino microcontroller which has the role of controlling the circuit and

producing pwm signals to regulate the dc dc converter several tests were conducted to validate the efficiency of the mppt algorithm the scc device succeeded in increasing efficiency up to 52 on the low irradiance level