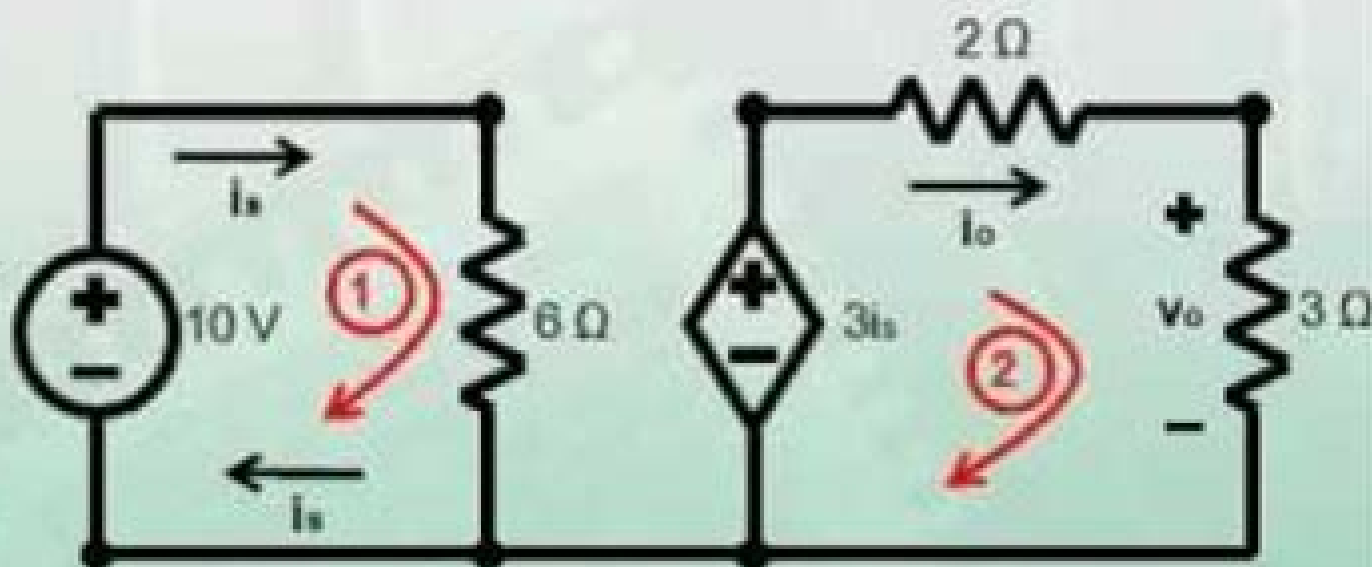


1.6 Circuits Containing A Dependent Source

Example 4:

- (a) Use Kirchhoff's laws and Ohm's law to find v_o .
- (b) Show that total power developed = total power dissipated.



Solution :

- (a) From loop 1: $-10 + 6i_s = 0 \rightarrow i_s = 1.67 \text{ A}$

$$\text{From loop 2: } -3i_s + 2i_o + 3i_o = 0 \rightarrow i_o = 1 \text{ A} \quad , \quad v_o = 3i_o = 3 \text{ V}$$

- (b) Power dissipated in the 6Ω resistor = $i_s^2 \times 6 = 16.67 \text{ W}$

$$\text{Power dissipated in the } 2 \Omega \text{ resistor} = i_o^2 \times 2 = 2 \text{ W}$$

$$\text{Power dissipated in the } 3 \Omega \text{ resistor} = i_o^2 \times 3 = 3 \text{ W}$$

$$\text{Power of the independent voltage source} = -10i_s = -16.67 \text{ W} < 0 \rightarrow \text{developed}$$

$$\text{Power of the dependent voltage source} = -3i_s \times i_o = -5 \text{ W} < 0 \rightarrow \text{developed}$$

Electrical Engineering Circuits

Hugh Hildreth Skilling



Electrical Engineering Circuits:

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In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Electrical Engineering Circuits**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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