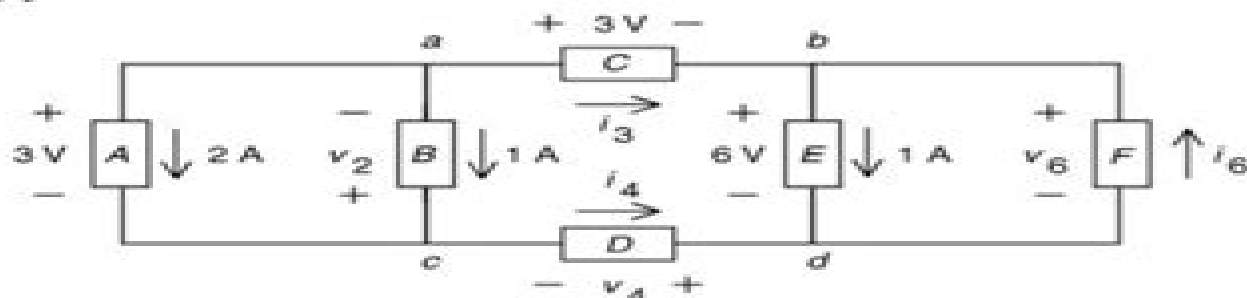


Chapter 3 – Resistive Circuits

Exercises

Ex 3.3-1



Apply KCL at node a to get $2 + 1 + i_3 = 0 \Rightarrow i_3 = -3 \text{ A}$

Apply KCL at node c to get $2 + 1 = i_4 \Rightarrow i_4 = 3 \text{ A}$

Apply KCL at node b to get $i_3 + i_6 = 1 \Rightarrow -3 + i_6 = 1 \Rightarrow i_6 = 4 \text{ A}$

Apply KVL to the loop consisting of elements A and B to get

$$-v_2 - 3 = 0 \Rightarrow v_2 = -3 \text{ V}$$

Apply KVL to the loop consisting of elements C , E , D , and A to get

$$3 + 6 + v_4 - 3 = 0 \Rightarrow v_4 = -6 \text{ V}$$

Apply KVL to the loop consisting of elements E and F to get

$$v_6 - 6 = 0 \Rightarrow v_6 = 6 \text{ V}$$

Check: The sum of the power supplied by all branches is

$$-(3)(2) + (-3)(1) - (3)(-3) + (-6)(3) - (6)(1) + (6)(4) = -6 - 3 + 9 - 18 - 6 + 24 = 0$$

Introduction To Electric Circuits Solutions Manual

Kathleen Armour



Introduction To Electric Circuits Solutions Manual:

Introduction To Electric Circuits Solutions Manual Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Introduction To Electric Circuits Solutions Manual**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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