

EXAMPLE 2.8

Let us find I_4 and I_5 in the network represented by the topological diagram in Fig. 2.6.

SOLUTION

This diagram is redrawn in Fig. 2.8; node 1 is enclosed in surface 1, and nodes 3 and 4 are enclosed in surface 2. A quick review of the previous example indicates that we derived a value for I_4 from the value of I_5 . However, I_5 is now completely enclosed in surface 2. If we apply KCL to surface 2, assuming the currents out of the surface are positive, we obtain

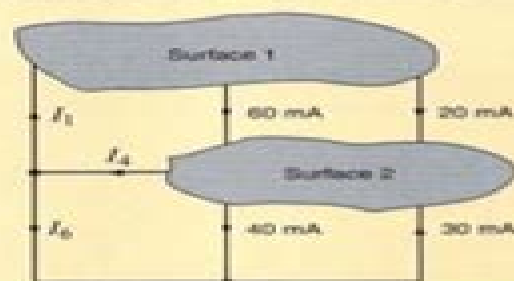
$$I_4 - 0.06 - 0.02 - 0.03 + 0.04 = 0$$

or

$$I_4 = 70 \text{ mA}$$

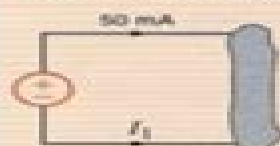
which we obtained without any knowledge of I_5 . Likewise for surface 1, what goes in must come out and, therefore, $I_5 = 80 \text{ mA}$. The reader is encouraged to cut the network in Fig. 2.6 into two pieces in any fashion and show that KCL is always satisfied at the boundaries.

Figure 2.8 →
Diagram used to demon-
strate KCL for a surface.

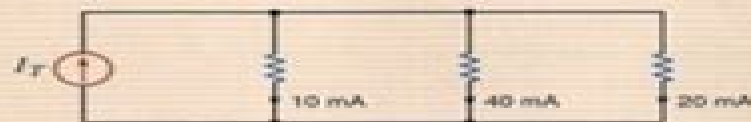


Learning ASSESSMENTS

E2.3 Given the networks in Fig. E2.3, find (a) I_1 in Fig. E2.3a and (b) I_T in Fig. E2.3b.



(a)



(b)

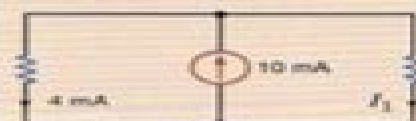
ANSWER:

(a) $I_1 = -50 \text{ mA}$;

(b) $I_T = 70 \text{ mA}$.

Figure E2.3

E2.4 Find (a) I_1 in the network in Fig. E2.4a and (b) I_1 and I_2 in the circuit in Fig. E2.4b.



(a)



(b)

ANSWER: (a) $I_1 = 6 \text{ mA}$;

(b) $I_1 = 8 \text{ mA}$ and

$I_2 = 5 \text{ mA}$.

Figure E2.4

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J. David Irwin



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Table of Contents Selected Examples From Basic Engineering Circuit Analysis Irwin

1. Understanding the eBook Selected Examples From Basic Engineering Circuit Analysis Irwin
 - The Rise of Digital Reading Selected Examples From Basic Engineering Circuit Analysis Irwin
 - Advantages of eBooks Over Traditional Books
2. Identifying Selected Examples From Basic Engineering Circuit Analysis Irwin
 - 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 Selected Examples From Basic Engineering Circuit Analysis Irwin
 - User-Friendly Interface
4. Exploring eBook Recommendations from Selected Examples From Basic Engineering Circuit Analysis Irwin
 - Personalized Recommendations
 - Selected Examples From Basic Engineering Circuit Analysis Irwin User Reviews and Ratings

- Selected Examples From Basic Engineering Circuit Analysis Irwin and Bestseller Lists
- 5. Accessing Selected Examples From Basic Engineering Circuit Analysis Irwin Free and Paid eBooks
 - Selected Examples From Basic Engineering Circuit Analysis Irwin Public Domain eBooks
 - Selected Examples From Basic Engineering Circuit Analysis Irwin eBook Subscription Services
 - Selected Examples From Basic Engineering Circuit Analysis Irwin Budget-Friendly Options
- 6. Navigating Selected Examples From Basic Engineering Circuit Analysis Irwin eBook Formats
 - ePub, PDF, MOBI, and More
 - Selected Examples From Basic Engineering Circuit Analysis Irwin Compatibility with Devices
 - Selected Examples From Basic Engineering Circuit Analysis Irwin Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Selected Examples From Basic Engineering Circuit Analysis Irwin
 - Highlighting and Note-Taking Selected Examples From Basic Engineering Circuit Analysis Irwin
 - Interactive Elements Selected Examples From Basic Engineering Circuit Analysis Irwin
- 8. Staying Engaged with Selected Examples From Basic Engineering Circuit Analysis Irwin
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Selected Examples From Basic Engineering Circuit Analysis Irwin
- 9. Balancing eBooks and Physical Books Selected Examples From Basic Engineering Circuit Analysis Irwin
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Selected Examples From Basic Engineering Circuit Analysis Irwin
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Selected Examples From Basic Engineering Circuit Analysis Irwin
 - Setting Reading Goals Selected Examples From Basic Engineering Circuit Analysis Irwin
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Selected Examples From Basic Engineering Circuit Analysis Irwin
 - Fact-Checking eBook Content of Selected Examples From Basic Engineering Circuit Analysis Irwin
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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