

## EXPERIMENT No.1

**Aim:** To verify Kirchhoff Voltage Law and Kirchhoff Current Law using hardware and Proteus software.

**Apparatus required:**

S. No.	Items	Specifications	Quantity
1	DC Voltage source	0-20V	01
2	Resistors	1-2 ohms	05
3	Ammeter	Digital type	01
4	Voltmeter	Digital type	01
5	Connecting wires	As per requirements	

- Kirchhoff's Voltage Law states that the algebraic sum of all the voltages around any closed path (loop or mesh) is zero.



Applying Kirchhoff's voltage law to the first and the second loops in the circuit shown in Figure yields:

$$\text{Loop 1: } -V_s + V_1 + V_2 + V_5 = 0$$

(1a)

$$\text{Loop 2: } -V_2 + V_3 + V_4 = 0$$

(1b)

- Kirchhoff's Current Law states that the algebraic sum of all the currents at any node is zero.

Applying Kirchhoff's current law to the first four nodes in the circuit shown in Figure yields the following equations;

$$\text{Node a: } -I_s + I_1 = 0$$

(2a)

$$\text{Node b: } -I_1 + I_2 + I_3 = 0$$

(2b)

$$\text{Node c: } -I_3 + I_4 = 0$$

(2c)

$$\text{Node d: } -I_2 - I_4 + I_5 = 0$$

(2d)

# List Of Experiments Basic Electrical Engineering

**Mark Steyvers**



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## **Table of Contents List Of Experiments Basic Electrical Engineering**

1. Understanding the eBook List Of Experiments Basic Electrical Engineering
  - The Rise of Digital Reading List Of Experiments Basic Electrical Engineering
  - Advantages of eBooks Over Traditional Books
2. Identifying List Of Experiments Basic Electrical Engineering
  - 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 List Of Experiments Basic Electrical Engineering
  - User-Friendly Interface

4. Exploring eBook Recommendations from List Of Experiments Basic Electrical Engineering
  - Personalized Recommendations
  - List Of Experiments Basic Electrical Engineering User Reviews and Ratings
  - List Of Experiments Basic Electrical Engineering and Bestseller Lists
5. Accessing List Of Experiments Basic Electrical Engineering Free and Paid eBooks
  - List Of Experiments Basic Electrical Engineering Public Domain eBooks
  - List Of Experiments Basic Electrical Engineering eBook Subscription Services
  - List Of Experiments Basic Electrical Engineering Budget-Friendly Options
6. Navigating List Of Experiments Basic Electrical Engineering eBook Formats
  - ePub, PDF, MOBI, and More
  - List Of Experiments Basic Electrical Engineering Compatibility with Devices
  - List Of Experiments Basic Electrical Engineering Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of List Of Experiments Basic Electrical Engineering
  - Highlighting and Note-Taking List Of Experiments Basic Electrical Engineering
  - Interactive Elements List Of Experiments Basic Electrical Engineering
8. Staying Engaged with List Of Experiments Basic Electrical Engineering
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers List Of Experiments Basic Electrical Engineering
9. Balancing eBooks and Physical Books List Of Experiments Basic Electrical Engineering
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection List Of Experiments Basic Electrical Engineering
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine List Of Experiments Basic Electrical Engineering
  - Setting Reading Goals List Of Experiments Basic Electrical Engineering
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of List Of Experiments Basic Electrical Engineering
  - Fact-Checking eBook Content of List Of Experiments Basic Electrical Engineering
  - 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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