

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

Robert R. Redfield



List Of Experiments Basic Electrical Engineering:

List Of Experiments Basic Electrical Engineering Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **List Of Experiments Basic Electrical Engineering**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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