

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

Guillaume Favre



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Experiments In Basic Electrical Engineering S.K. Bhattacharya,2007 It Has Often Been Experienced That Students Are Required To Perform Experiments On Certain Topic Before The Relevant Theory Has Been Taught In The Class A Laboratory Manual Which In Addition To A Set Of Instructions For Performing Experiments Includes Related Theory In Brief Could Help Students Understand Experiments Better In Response Of Demand From A Large Number Of States For An Appropriate Aboratory Manual In Basic Electricity And Electrical Measurements The T T T I Chandigarh Has Prepared This Manual Which Has Been Tried Out In Various Polytechnics And Improved Based On The Feedback The Basic Objective Of The Manual Is To Encourage Students To Perform Experiments Independently And Purposefully The Manual Organises The Information To Enable The Students To Verify Known Concepts And Principles And To Follow Certain Procedures And Practices And Thereby Acquire Relevant Skills Detailed Instructions For Carrying Out Each Experiment Alongwith Relevant Theory In Brief Have Been Given The Objectives For Performing An Experiment Have Been Included At The Beginning Of Each Experiment A List Of Questions Given At The End Of Each Experiment Will Help Students Evaluate His Own Understanding The Manual Also Includes Guidelines For Students And Teachers For Its Effective Use An Assessment Proforma Given At The Beginning Of The Manual May Be Used By The Teachers In Evaluating The Students

Electrical Engineering ,1907 Vols for 1887 1946 include the preprint pages of the institute s Transactions

The Electrical Engineer ,1884 **Electrical Engineering for Professional Engineers' Examinations** John Dennis Constance,1970

Electrical Engineer ,1888 Engineering Mechanics Devoted to Mechanical Civil, Mining and Electrical Engineering ,1884 *Beama Journal* ,1953 **The Journal of Education** ,1920 The Model Engineer and Electrician ,1904

Resources in Education ,1981 **IRE Transactions on Education** ,1961 Standard Catalog for High School Libraries ,1928 The 1st ed accompanied by a list of Library of Congress card numbers for books except fiction pamphlets etc which are included in the 1st ed and its supplement 1926 29 *Scientific and Technical Aerospace Reports* ,1993 *The Electrical Journal* ,1915 **The Electrician and Electrical Engineer** ,1886 *Agricultural Engineering* ,1927 English Mechanic and Mirror of Science ,1890 *Annual Report of the Pennsylvania Agricultural Experiment Station* Pennsylvania State College. Agricultural Experiment Station,1908 **Annual Report of the Secretary of the State Board of Agriculture of the State of Michigan and ... Annual Report of the Agricultural College Experiment Station from ...** Michigan. State Board of Agriculture,1917 Includes the 9th 61st annual report of the Agricultural Experiment Station called 9th 11th Agricultural College Experiment Station called 12th 59th annual report of the Experiment Station and issued by Michigan State College called earlier State Agricultural College Mich Michigan Agricultural College

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