

Product Name :

Verification of Laws & Network Theorems in DC Circuits

Product Code :

NLAB-ELECTRONICSAB420014

Description :

Verification of Laws & Network Theorems in DC Circuits

Technical Specification :

Experimental Training Board has been designed specifically for the study & verification of the laws and network theorems in D.C. circuits. The

board is absolutely self contained and requires no other apparatus.

Practical experience on this board carries great educative value for Science and Engineering Students.

Object:

01. Verification of Ohms Law.
02. To draw the V-I characteristics for studying the D.C. behavior of the following :
 - (a) Ideal resistance.
 - (b) Semiconductor diode.
 - (c) Zener diode.
 - (d) Thermistor (NTC Type).
03. To verify Kirchoffs current law and voltage law.
04. Verification of the series & parallel laws for resistances.
05. Verification of Superposition Theorem.
06. Study of potential divider.

07. Verification of Maximum Power Transfer Theorem.
08. To verify Thevenins Theorem and to find equivalent voltage source circuit.
09. To verify Nortons Theorem and to find equivalent current source circuit.
10. To study the design of a multimeter.

Features:

The board consists of following built-in parts:

01. 0-30V D.C. at 100 mA, continuously variable IC Regulated Power Supply.
02. +9V D.C. at 100 mA, IC Regulated Power Supply.
03. +5V D.C. at 100 mA , IC Regulated Power Supply.
04. D.C. Voltmeter, 65mm rectangular dial with switch selectable ranges of 0.5, 1.5, 25 & 50V.
05. D.C. Ammeter, 65mm rectangular dial with switch selectable ranges of 0.05, 0.5, 5, 50 & 100mA.
06. Adequate no. of other electronic components.

The unit is operative on 230V \pm 10% at 50Hz A.C. Mains.

Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length $\frac{1}{2}$ metre.

Naugralabequipments

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