#### Experimental Verification of Network Theorems

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#### 1 Network Theorems

Network theorems are analytical method used to convert a complex circuit into a simple equivalent circuit.

#### 1.1 Thevenin's Theorem

Any linear complex circuit seen from any two terminals may be represented by a single voltage source (Thevenin Voltage,  $V_{th}$ ) in series with an impedance (Thevenin Impedance,  $Z_{th}$ ) where Thevenin voltage is the open circuit voltage between that terminals and Thevenin impedance is equal to the impedance seen from that terminals, after short-circuiting all independent ideal voltage sources and opening the independent ideal current sources.

#### 1.2 Norton's Theorem:

Any linear complex circuit seen from any two terminals may be represented by a single current source (Nortin Current,  $I_N$ ) in parallel with an impedance (Norton Impedance,  $Z_N$ ), where Norton current is the short circuit current between that terminals and Norton impedance is equal to the impedance seen from that terminals, after short-circuiting all independent ideal voltage sources and opening the independent ideal current sources. The Thyenin's and Norton's theorems are dual and applicable to linear circuits only.

#### 1.3 Objective of the Experiment:

To verify Thevenin and Norton theorem by using a given circuit.

#### 1.3.1 Circuit diagram and working formula:

Figure 1 shows the working circuit for verification of Network theorems. It is an unbalanced resistive Wheatstone bridge network having power supply with ignorable internal resistance connected to load resistance  $R_L$ .

Theyenin's Theorem verification:

Let us consider the the terminals B and D between which we apply Thevenin theorem. The Thevenin voltage measured across B and D, can be written as

$$V_{th} = V_{co} \left( \frac{R_2}{R_1 + R_2} \sim \frac{R_3}{R_3 + R_4} \right)$$
 (1)

The venim resistance (c.f. figure: 2)  $H_{in}$  is given by,

$$R_{th} = \frac{R_4 \cdot R_2}{R_1 + R_2} + \frac{R_3 \cdot R_4}{R_3 + R_4}$$
(2)

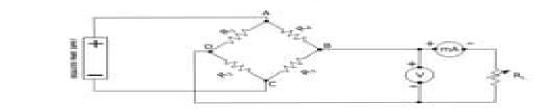


Figure 1: Schematic Circuit diagram for study of Network Theorems

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**Emmett Dulaney** 

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