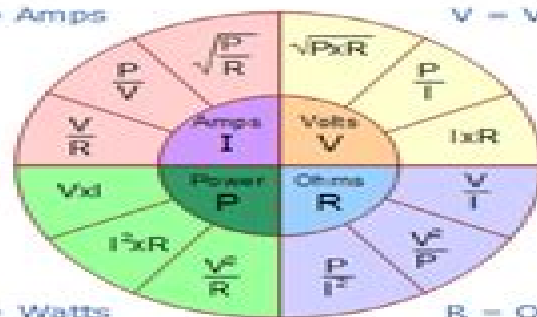


I = Amps

V = Volts



P = Watts

R = Ohms

PROOF:

STEP 1: Verification of KCL:

At node "a": $i_1 = i_2 + i_3$ ——— (1)

$$5 = 2 + 3 = 5$$

At node "b": $i_3 = i_4$ ——— (2)

$$3 = 3$$

STEP 2: Verification of KVL:

In mesh "1": $-v_1 - v_2 + v_3 = 0$

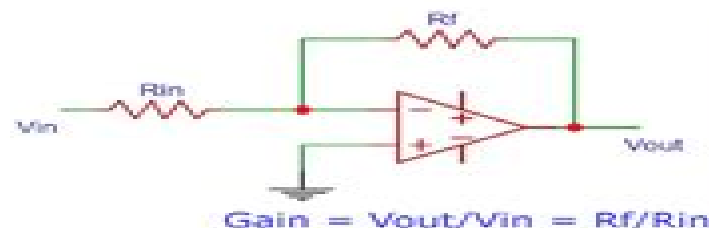
$$-6 - 4 + 10 = 0$$

In mesh "2": $v_3 - v_4 - v_5 = 0$

$$4 - 3 - 1 = 0$$

Hence KVL and KCL are satisfied.

TELLEGEN'S THEOREM



Sign Convention

- Add up the voltages in a systematic clockwise movement around the loop.
- Assign a positive sign to the voltage across an element if the (+) side of that voltage is encountered first, and assign a negative sign if the (-) side is encountered first.

Solution Procedure: Mesh Current

Step 1: Identify all meshes and assign each of them an unknown mesh current. For convenience, define all mesh currents to be clockwise in direction.

Step 2: Apply Kirchhoff's voltage law (KVL) to each mesh.

Step 3: Solve the resultant simultaneous equations to determine the mesh currents (see Appendix B).

Solution Procedure: Node Voltage

Step 1: Identify all extraordinary nodes, select one of them as a reference node (ground), and then assign node voltages to the remaining $(n_{ex} - 1)$ extraordinary nodes.

Step 2: At each of the $(n_{ex} - 1)$ extraordinary nodes, apply the form of KCL requiring the sum of all currents leaving a node to be zero (see KCL template).

Step 3: Solve the $(n_{ex} - 1)$ independent simultaneous equations to determine the unknown node voltages (see Appendix B).

Mathematical and Physical Models

Linear resistor $R = \rho L/A$
 $\rho = L^2/B$

Kirchhoff current law (KCL): $\sum_{k=1}^n i_k = 0$

i_k = current entering node n

Kirchhoff voltage law (KVL): $\sum_{k=1}^n v_k = 0$

v_k = voltage across branch n

Resistor combinations:

In series $R_{eq} = \sum_{k=1}^n R_k$

In parallel $\frac{1}{R_{eq}} = \sum_{k=1}^n \frac{1}{R_k}$

or $G_{eq} = \sum_{k=1}^n G_k$

Voltage division

$$v_1 = \left(\frac{R_1}{R_1 + R_2} \right) v_s$$

$$v_2 = \left(\frac{R_2}{R_1 + R_2} \right) v_s$$

Current division

$$i_1 = \left(\frac{R_2}{R_1 + R_2} \right) i_s = \frac{G_2}{G_1 + G_2} i_s$$

$$i_2 = \left(\frac{R_1}{R_1 + R_2} \right) i_s = \frac{G_1}{G_1 + G_2} i_s$$

Source transformation



V-i transformation

Table 2-5

Wheatstone bridge (Fig. 2-37): $i_{out} \approx \frac{V_s}{4} \left(\frac{\Delta R}{R} \right)$

KCL/KVL Solution Recipe

- Use KCL, KVL, and Ohm's law to develop as many independent equations as the number of unknowns (N).
- (a) Write as many KVL loop equations as you can, picking up at least one additional circuit element for each loop. Let M be the number of such loop equations. Exclude loops that go through current sources.
- (b) Write $(N - M)$ KCL equations, making sure each node picks up an additional current.
- Write the equations in standard form (see Eq. (B.2) in Appendix B).
- Cast the standard-form equations in matrix form, as in Eqs. (B.19) and (B.20) of Appendix B.
- Apply matrix inversion to compute the values of the circuit unknowns (Appendix B).

Physics Current And Circuits Study Guide Answers

**John D. Cutnell, Kenneth W.
Johnson, David Young, Shane Stadler**



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