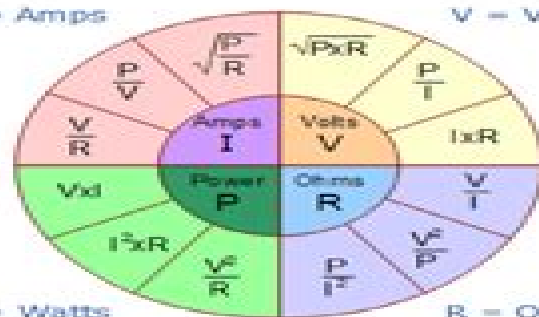


I = Amps

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": $-v_1 - v_2 + v_3 = 0$

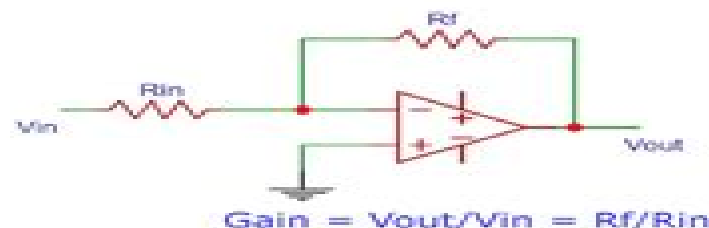
$$-6 - 4 + 10 = 0$$

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 $R = \rho L/A$
 $\rho = L^2/R$

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

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

Current division

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

Source transformation

$$i_s = \frac{v_s}{R_s}$$

V- Δ 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

Craig T. Smith



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