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If you're seeing this message, it means we're having trouble loading external resources on our website. If you're behind a web filter, please make sure that the domains *.kastatic.org and *.kasandbox.org are unblocked. The Mesh Method: The Mesh method uses the Mesh currents as the circuit variables. The procedure for Obtaining the solution is similar to that followed in the Node method and the various Steps are given below. 1. Clearly label all circuit parameters and distinguish the unknown parameters from the known. 2. Identify all meshes of the circuit. 3. Assign mesh currents and label polarities. 4. Apply KVL at each mesh and express the voltages in terms of the mesh currents. 5. Solve the resulting simultaneous equations for the mesh currents. 6. Now that the mesh currents are known, the voltages may be obtained from Ohm's law. A mesh is defined as a loop which does not contain any other loops. Mesh Analysis Circuit

One simple method of reducing the amount of math's involved is to analyse the circuit using Kirchhoff's Current Law equations to determine the currents, I1 and I2 flowing in the two resistors. Then there is no need to calculate the current I3 as its just the sum of I1 and I2. So Kirchhoff's second voltage law simply becomes: Equation No 1 : $I_0 = 50I_1 + 40I_2$ Equation No 2 : $20 = 40I_1 + 60I_2$ Therefore, one line of math's calculation has been saved. [click here to join our group](#) [click here to join our group](#) Mesh Current Analysis An easier method of solving the above circuit is by using Mesh Current Analysis or Loop Analysis which is also sometimes called Maxwell's Circulating Currents method. Instead of labeling the branch currents we need to label each "closed loop" with a circulating current. As a general rule of thumb, only label inside loops in a clockwise direction with circulating currents as the aim is to cover all the elements of the circuit at least once. Any required branch current may be found from the appropriate loop or mesh currents as before using Kirchhoff's method. EXAMPLE — What is the voltage across the current source? Via nodal analysis: Defining the nodal voltages in the conventional way (with the reference node at the bottom grounded to 0 V) leads to: KCL at node 1: $(V_1 - 2)/2 + V_1/3 + (V_1 - V_2) = 0$ KCL at node 2: $(V_2 - V_1) + V_2/5 - 2 = 0$ Multiplying eqn. 1 through by 6, eqn. 2 through by 5, and consolidating terms leads to the following two equations to solve: $11V_1 - 6V_2 = 6 - 5V_1 + 6V_2 = 10$ Adding the two equations produces: $V_1 = 2.67$ V Backsubstitution yields the desired answer: $V_2 = 3.89$ V For this circuit, for the quantity of interest, nodal analysis is a bit quicker than mesh analysis... DC circuits analysis using mesh & nodal method « Karnataka Common Entrance Test Latest Syllabus There is no right way for doing Wrong thing » There are two basic methods that are used for solving any electrical network: Nodal analysis and Mesh analysis. In this chapter, let us discuss about the Nodal analysis method. In Nodal analysis, we will consider the node voltages with respect to Ground. Hence, Nodal analysis is also called as Node-voltage method. Procedure of Nodal Analysis Follow these steps while solving any electrical network or circuit using Nodal analysis. Step 1 – Identify the principal nodes and choose one of them as reference node. We will treat that reference node as the Ground. Step 2 – Label the node voltages with respect to Ground from all the principal nodes except the reference node. Step 3 – Write nodal equations at all the principal nodes except the reference node. Nodal equation is obtained by applying KCL first and then Ohm's law. Step 4 – Solve the nodal equations obtained in Step 3 in order to get the node voltages. Now, we can find the current flowing through any element and the voltage across any element that is present in the given network by using node voltages. Example Find the current flowing through 20 Ω resistor of the following circuit using Nodal analysis. Step 1 – There are three principle nodes in the above circuit. Those are labelled as 1, 2, and 3 in the following figure. In the above figure, consider node 3 as reference node (Ground). Step 2 – The node voltages, V1 and V2, are labelled in the following figure. In the above figure, V1 is the voltage from node 1 with respect to ground and V2 is the voltage from node 2 with respect to ground. Step 3 – In this case, we will get two nodal equations, since there are two principal nodes, 1 and 2, other than Ground. When we write the nodal equations at a node, assume all the currents are leaving from the node for which the direction of current is not mentioned and that node's voltage as greater than other node voltages in the circuit. The nodal equation at node 1 is $\frac{V_1 - 20}{5} + \frac{V_1}{10} + \frac{V_1 - V_2}{10} = 0$ $\frac{V_1 - 40 + V_1 + V_1 - V_2}{10} = 0$ $\frac{3V_1 - V_2 - 40}{10} = 0$ $3V_1 - V_2 = 40$ Equation 1 The nodal equation at node 2 is $\frac{V_2 - 4}{2} + \frac{V_2 - V_1}{10} = 0$ $\frac{5(V_2 - 4) + V_2 - V_1}{10} = 0$ $\frac{5V_2 - 20 + V_2 - V_1}{10} = 0$ $\frac{6V_2 - V_1 - 20}{10} = 0$ $6V_2 - V_1 = 20$ Equation 2 Step 4 – Finding node voltages, V1 and V2 by solving Equation 1 and Equation 2. Substitute Equation 1 in Equation 2. $3(4 - V_1) - V_2 = 20$ $12 - 3V_1 - V_2 = 20$ $-3V_1 - V_2 = 8$ Equation 3 Substitute V1 = 20 V in Equation 1. $3(20) - V_2 = 40$ $60 - V_2 = 40$ $V_2 = 20$ V Equation 4 Step 5 – Finding node voltages, V and 40 V respectively. Step 5 – The voltage across 20 Ω resistor is nothing but the node voltage V2 and it is equal to 40 V. Now, we can find the current flowing through 20 Ω resistor by using Ohm's law. $I = \frac{V}{R}$ Substitute the values of V2 and R in the above equation. $I = \frac{40}{20} = 2$ A Therefore, the current flowing through 20 Ω resistor of given circuit is 2 A. Note – From the above example, we can conclude that we have to solve 'n' nodal equations, if the electric circuit has 'n' principal nodes (except the reference node). Therefore, we can choose Nodal analysis when the number of principal nodes (except reference node) is less than the number of meshes of any electrical circuit.

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