ee101_nodal_anaylsis_1.sqproj

Description

In nodal analysis, the following steps are carried out:

1. Identify circuit nodes, define node voltages V_1, V_2, etc.

2. Write KCL at each node in terms of V_1, V_2, etc.

3. Solve the resulting system of equations to obtain V_1, V_2, etc.

4. Compute any other quantities (currents, voltages, powers) of interest using the node voltages.

Exercise

For the circuit shown in the figure, carry out nodal analysis, and find the following: (a) currents through R_1, R_2, R_3, (b) power delivered by the two sources, I_{s1} and I_{s2}.