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*Definition of Circuit Analysis. Electrical Circuit Analysis is a process of finding out different unknown parameters of a circuit. Description. The parameters are resistance, voltage, current, power, energy, impedance, admittance, inductance, reactance, capacitance, conductance, phase angle and many more. We often have to find out any of these parameters of a branch of a circuit in our practical engineering applications.*

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*The circuit elements are resistors, capacitors, inductors, voltage sources, current sources etc. Current, voltage, resistance, impedance, reactance, inductance, capacitance, frequency,*

*electric power, electrical energy etc are the different electrical parameters we determine by network analysis. In short, we can say, an electrical network is the combination of different circuit elements and the network analysis or circuit analysis is the technique to determine the different electrical ...*

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*In network analysis (electrical circuits), terminal means a point at which connections can be made to a network in theory and does not necessarily refer to any physical object. Electrical connector Network analysis (electrical circuits) Node (circuits) Electrical polarity Electrical conductor.*

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*When doing circuit analysis, you need to know some essential laws, electrical quantities, relationships, and theorems. Ohm's law is a key device equation that relates current, voltage, and resistance. Using Kirchhoff's laws, you can simplify a network of resistors using a single equivalent resistor.*

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*In this method, the network is left in its original form while determining it different voltages and currents. Such method are usually restricted to fairly simple circuits and include Kirchhoff's law, loop analysis, nodal analysis, superposition theorem, compensation theorem, and reciprocity theorem, etc. 2. The Network Reduction Method:*

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Network topology is a graphical representation of electric circuits. It is useful for analyzing complex electric circuits by converting them into network graphs. Network topology is also called as Graph theory. Basic Terminology of Network Topology

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