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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



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Network topology is a graphical

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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. Now, let us discuss about the basic terminology involved in this network topology. Graph

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In a non-linear circuit the parameters change with voltage and current. A passive network is a one which contains no source of EMF. An active network is a one which contains one or more sources of EMF. A bilateral circuit is one whose properties or characteristics are same in either direction of current. Example: the usual transmission line is bilateral.



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## **About Electrical Circuit Theory - Bright Hub Engineering**

In a network analysis of such a circuit from a topological point of view, the network nodes are the vertices of graph theory and the network branches are the edges of graph theory. Standard graph theory can be extended to deal with

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active components and multi-terminal devices such as integrated circuits.

## **Topology (electrical circuits) - Wikipedia**

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