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Circuit analysis is important in order to be able to design, synthesize and evaluate the performance of electric circuits or networks. The two basic laws for circuit analysis are Kirchhoff's current law (KCL), sometimes referred to as the first law and Kirchhoff's voltage law (KVL), sometimes called the second law.

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Electric circuits or networks are the assemblage of devices and or equipment needed to connect the source of energy to the user or the device which exploits it. Communications systems, computer systems and power systems all consist of more or less complicated electric circuits which themselves are made up of a number of circuit elements.

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