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elements and in many cases knowing the  $i$ - $v$  characteristics of the circuit is sufficient in order to understand its behavior and be able to interconnect it with other circuits. The following figure illustrates the general concept where a circuit is represented by the box as indicated.

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engineering, are listed in Appendix C, for

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current, voltage, and resistance.

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Thus, the circuit theory or analysis helps to understand the circuit behavior or characteristics by finding out the voltages and currents in various elements in a circuit by using different

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techniques. So let us discuss in brief about basic concepts of electricity before we could deal with DC circuit theory in later articles.

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- Voltage, Current, and Power.
- Circuit Schematic and Ideal Basic

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Circuit Elements. - Independent and  
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are associated into pairs called duals. A dual of a relationship is formed by interchanging voltage and current in an expression. The dual expression thus produced is of the same form, and the reason that the dual is always a valid statement can be traced to the duality of electricity and magnetism.. Here is a partial list of electrical dualities:

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