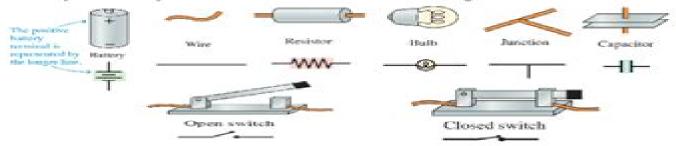
Chpt. 23: Circuits

1. Circuit Elements and Diagrams

a. Circuit diagram- a logical picture of what is connected to what



b. A library of basic symbols used for electric circuit drawings



2. Kirchhoff's Laws

 The total current into a junction must equal the total current leaving the junction



- i. Application of the conservation of charge
- ii. Can also apply the law of conservation of circuits
- iii. If a charged particle moves around a closed loop & returns to its starting point, there is no change in its electric potential energy: ΔU_{cles} = 0.
 - V = U(electron)/q
 - The net change in the electric potential around any loop or closed path must be zero as well

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