

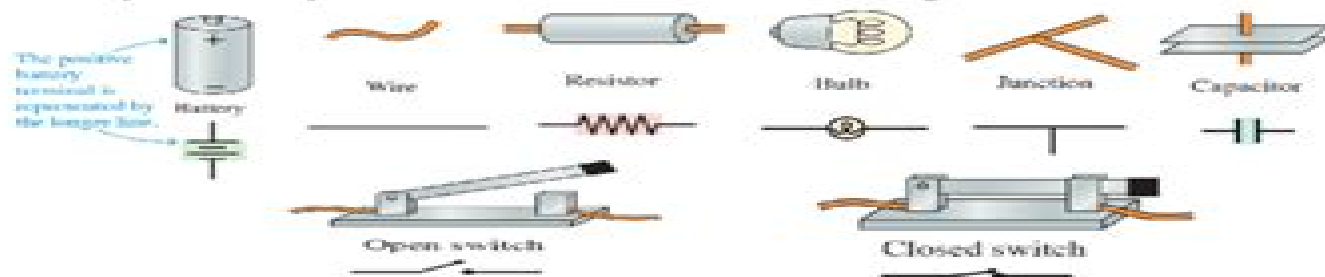
Chpt. 23: Circuits

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

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

$$\sum I_{in} = \sum I_{out}$$

Kirchhoff's junction law



Junction law: $I_3 = I_1 + I_2$

- 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: $\Delta U_{elec} = 0$.
 1. $V = U(\text{electron})/q$
 2. The net change in the electric potential around any loop or closed path must be zero as well

Holt Physics Circuits And Circuit Elements Test

Daniel F McAuley



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