




















Chapter 18: Circuits and Circuit Elements,

Section 1: Schematic Diagrams and Circuits

Schematic Diagrams

Schematic diagram: diagram that depicts the construction of an electrical apparatus

- Uses symbols to represent circuit elements
 - Battery, light bulbs or lamps, resistors, switch, capacitor

Component	Symbol used in this book	Other forms of this symbol	Explanation
Wire or conductor			<ul style="list-style-type: none"> • Wires that connect elements are conductors. • Because wires offer negligible resistance, they are represented by straight lines.
Resistor or circuit load			<ul style="list-style-type: none"> • Resistors are shown having multiple bends, illustrating resistance to the movement of charges.
Bulb or lamp		 	<ul style="list-style-type: none"> • The multiple bends of the filament indicate that the light bulb behaves as a resistor. • The symbol for the filament of the bulb is often enclosed in a circle to emphasize the enclosure of a resistor in a bulb.
Plug		 	<ul style="list-style-type: none"> • The plug symbol looks like a container for two prongs. • The emf between the two prongs of a plug is symbolized by lines of unequal length.
Battery		  Multiple cells	<ul style="list-style-type: none"> • Differences in line length indicate a potential difference between positive and negative terminals of the battery. • The longer line represents the positive terminal of the battery.
Switch	 Open Closed	 Open  Closed	<ul style="list-style-type: none"> • The small circles indicate the two places where the switch makes contact with the wires. Most switches work by breaking only one of the contacts, not both.
Capacitor		 	<ul style="list-style-type: none"> • The two parallel plates of a capacitor are symbolized by two parallel lines of equal length. • One curved line indicates that the capacitor can be used with only direct current sources with the polarity as shown.

Circuits And Circuit Elements Concept Review Answers Key

JR Anderson



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