

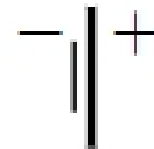
# Chapter 18

## Circuit Elements, Independent Voltage Sources, and Capacitors





Ideal Wire



Ideal Battery



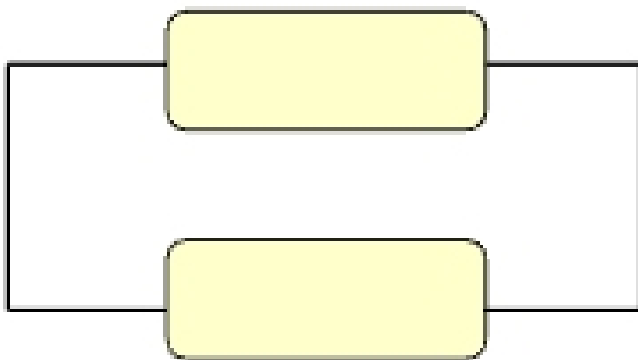
Ideal Resistor



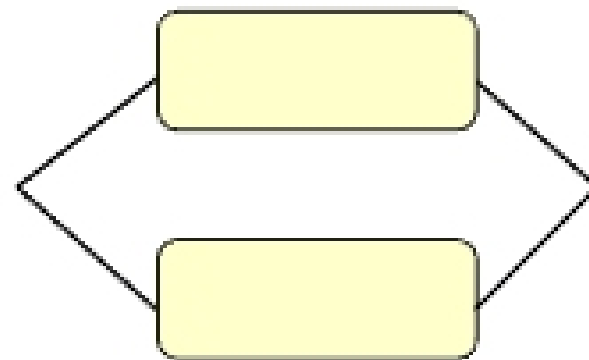
Ideal Capacitor

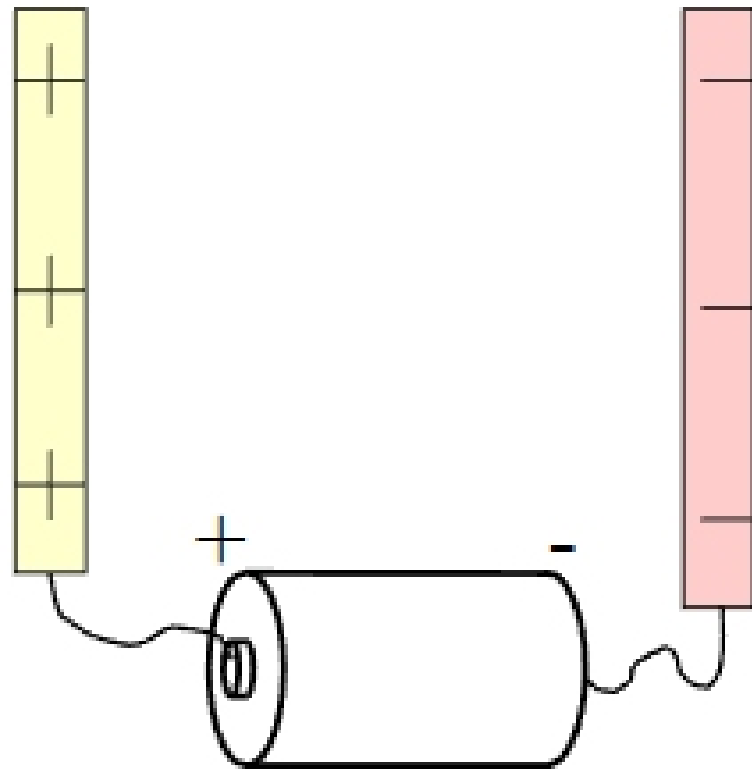


Series



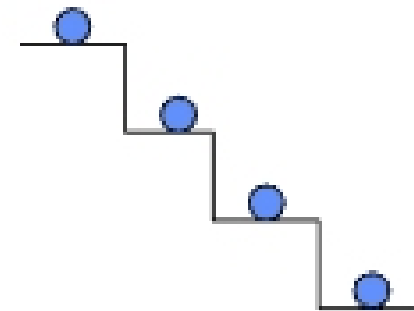
Parallel





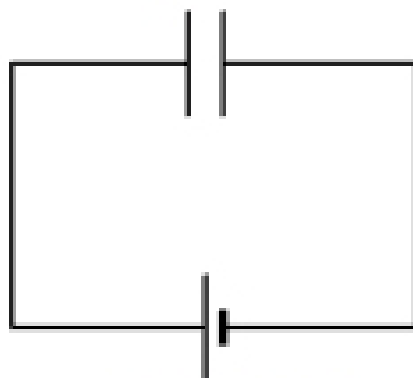
An ideal battery provides a constant potential difference

High Potential



Low Potential

Capacitor



Battery

Charge moves until there is no voltage difference