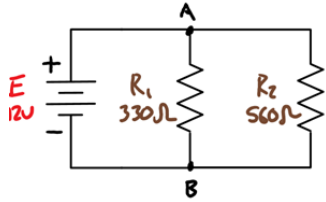


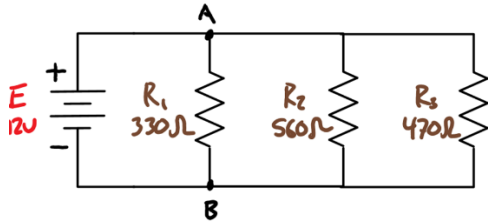
Parallel DC Circuit Properties

Identify the most important properties regarding voltage and current in parallel circuits.

Determine the voltage across, the current through, and power dissipated by each element in this system. Additionally, determine source current and total power.

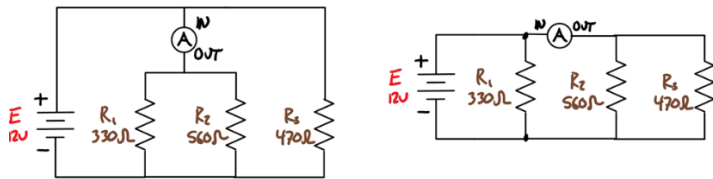


Determine the voltage across, the current through, and power dissipated by each element in this system. Additionally, determine source current and total power. Discuss how additional elements in parallel affect electrical properties of other elements in the system. Discuss how rearranging elements in parallel circuits affects electrical properties.



Illustrate how ammeters would be incorporated in the above circuit to measure source current and current through individual elements.

Identify what each ammeter would read if configured in the following fashions.



Determine the voltage across, the current through, and power dissipated by each element in this system. Additionally, determine source current and total power.



Discuss how opened elements in parallel circuits affect electrical properties.

Explain how electrical distribution is accomplished using switched elements in parallel circuits.

Discuss how shorted elements in parallel circuits affect electrical properties.

Explain how a current limited voltage source responds to a short in a parallel circuit.

Explain how an over current protected voltage source responds to a short in a parallel circuit.