

Experiment: Series and Parallel Circuits

OBJECTIVES

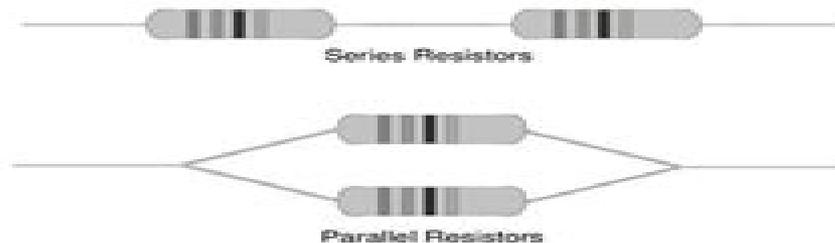
- To study current flow and voltages in series and parallel circuits.
- To use Ohm's law to calculate equivalent resistance of series and parallel circuits.

MATERIALS

- Windows PC
- LabPro Interface
- Logger Pro
- Current & Voltage Probe System
- low-voltage DC power supply
- two 10- Ω resistors
- two 50- Ω resistors
- two 68- Ω resistors
- momentary-contact switch
- connecting wires

Components in an electrical circuit are in *series* when they are connected one after the other, so that the same current flows through both of them. Components are in *parallel* when they are in alternate branches of a circuit. Series and parallel circuits function differently. You may have noticed the differences in electrical circuits you use. When using some decorative holiday light circuits, if one lamp burns out, the whole string of lamps goes off. These lamps are in series. When a light bulb burns out in your house, the other lights stay on. Household wiring is normally in parallel.

You can monitor these circuits using a Current and Voltage Probe System and see how they operate. The goal of this experiment is to study circuits made up of two resistors in series or parallel.



PRELIMINARY QUESTIONS

1. How do series resistors affect current flow? What would you expect the effective resistance of two equal resistors in series to be, compared to the resistance of a single resistor?
2. How do parallel resistors affect current flow? What would you expect the effective resistance of two equal resistors in parallel to be, compared to the resistance of one alone?

Series And Parallel Circuits Lab Answers

Lingjun Ying



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