

Experiment: Series and Parallel Circuits

OBJECTIVES

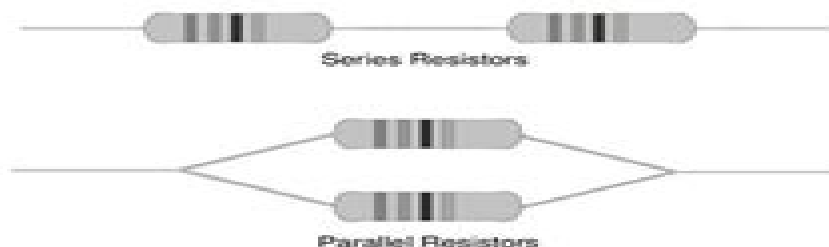
- To study current flow and voltages in series and parallel circuits.
- To use Ohm's law to calculate equivalent resistance of series and parallel circuits.

MATERIALS

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

23 Series And Parallel Circuits Answers

E Durkheim



23 Series And Parallel Circuits Answers:

Electrical and Electronic Principles and Technology, 5th ed John Bird, 2013-11-12 This much loved textbook introduces electrical and electronic principles and technology to students who are new to the subject Real world situations and engineering examples put the theory into context The inclusion of worked problems with solutions really help aid your understanding and further problems then allow you to test and confirm you have mastered each subject In total the book contains 410 worked problems 540 further problems 340 multiple choice questions 455 short answer questions and 7 revision tests with answers online This is an ideal text for vocational courses enabling a sound understanding of the knowledge required by technicians in fields such as electrical engineering electronics and telecommunications It will also be an excellent refresher for foundation and undergraduate degree students It is supported by a companion website that contains solutions to the 540 questions in the practice exercises formulae to help students answer the questions multiple choice questions linked to each of the 23 chapters and information about the famous mathematicians and scientists mentioned in the book Lecturers also have access to full solutions and the marking scheme for the 7 revision tests lesson plans and illustrations from the book

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