

Experiment: Series and Parallel Circuits

OBJECTIVES

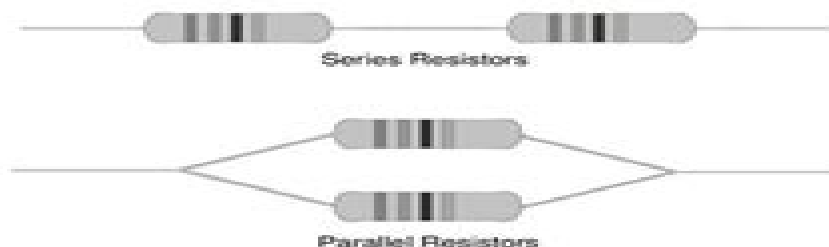
- To study current flow and voltages in series and parallel circuits.
- To use Ohm's law to calculate equivalent resistance of series and parallel circuits.

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?

Series And Parallel Circuits Basics Lab Answers

Mauro Parodi, Marco Storace



Series And Parallel Circuits Basics Lab Answers:

Experiments for Electrical Circuit Analysis with BASIC Programming Theodore F. Bogart,1982 **Top Shelf**
Walch Publishing,2003 Linear and Nonlinear Circuits: Basic and Advanced Concepts Mauro Parodi,Marco
Storace,2020-01-03 This book provides readers with the necessary background information and advanced concepts in the
field of circuits at the crossroads between physics mathematics and system theory It covers various engineering subfields
such as electrical devices and circuits and their electronic counterparts Based on the idea that a modern university course
should provide students with conceptual tools to understand the behavior of both linear and nonlinear circuits to approach
current problems posed by new cutting edge devices and to address future developments and challenges the book places
equal emphasis on linear and nonlinear two terminal and multi terminal as well as active and passive circuit components This
second volume focuses on dynamical circuits which are characterized by time evolution and by the concept of state The
content is divided into a set of introductory and a set of advanced level topics mirroring the approach used in the previously
published volume Whenever possible circuits are compared to physical systems of different natures e g mechanical or
biological that exhibit the same dynamical behavior The book also features a wealth of examples and numerous solved
problems Further topics such as a more general framing of linear and nonlinear components will be discussed in volume 3
Resources in Education ,1992-03 **EE809--DC Circuits Laboratory Lab Guide** Bernard L. Guss,1985
Laboratory Techniques in Physics - 2 Mr. Rohit Manglik,2024-03-06 EduGorilla Publication is a trusted name in the
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Table of Contents Series And Parallel Circuits Basics Lab Answers

1. Understanding the eBook Series And Parallel Circuits Basics Lab Answers
 - The Rise of Digital Reading Series And Parallel Circuits Basics Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Series And Parallel Circuits Basics Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Series And Parallel Circuits Basics Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Series And Parallel Circuits Basics Lab Answers
 - Personalized Recommendations
 - Series And Parallel Circuits Basics Lab Answers User Reviews and Ratings
 - Series And Parallel Circuits Basics Lab Answers and Bestseller Lists
5. Accessing Series And Parallel Circuits Basics Lab Answers Free and Paid eBooks
 - Series And Parallel Circuits Basics Lab Answers Public Domain eBooks
 - Series And Parallel Circuits Basics Lab Answers eBook Subscription Services
 - Series And Parallel Circuits Basics Lab Answers Budget-Friendly Options

6. Navigating Series And Parallel Circuits Basics Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Series And Parallel Circuits Basics Lab Answers Compatibility with Devices
 - Series And Parallel Circuits Basics Lab Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Series And Parallel Circuits Basics Lab Answers
 - Highlighting and Note-Taking Series And Parallel Circuits Basics Lab Answers
 - Interactive Elements Series And Parallel Circuits Basics Lab Answers
8. Staying Engaged with Series And Parallel Circuits Basics Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Series And Parallel Circuits Basics Lab Answers
9. Balancing eBooks and Physical Books Series And Parallel Circuits Basics Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Series And Parallel Circuits Basics Lab Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Series And Parallel Circuits Basics Lab Answers
 - Setting Reading Goals Series And Parallel Circuits Basics Lab Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Series And Parallel Circuits Basics Lab Answers
 - Fact-Checking eBook Content of Series And Parallel Circuits Basics Lab Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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