

Name: _____

ECET 231 - Circuit Analysis I

Lab 6 Series-Parallel DC Circuits

Objective: Students successfully completing this lab will accomplish the following objectives:

1. Gain experience analyzing and verifying, by measurements, the characteristics of series-parallel resistive circuits.
2. Increase understanding of the relationship of voltage, current and resistance in a series-parallel circuit
3. Learn to compute currents through the use of voltmeter readings.

Lab Report: A formal lab report on lab exercises 5, and 6 will be required. Keep your results from this lab exercise. They will be used as part of the formal report. The formal lab report will be due one week after lab 6 is performed.

Equipment: Digital Multimeter (DMM), connecting leads, alligator clips, breadboard, jumper wires.

Procedure:

In a circuit in which the components are soldered to a circuit board, direct measurement of current can be a nuisance. Doing so requires desoldering a connection, measuring the current in the circuit gap, and re-soldering the connection. If the circuit contains a sufficient number of resistors, it may be possible to use a voltmeter and some simple calculations using Ohm's law to determine circuit currents. In this latter method, no desoldering is required. We demonstrate this technique in the following steps.

1. Select three resistors: $R_1 = R_2 = R_3 = 100\ \Omega$, $\frac{1}{4}\text{ W}$. Measure the resistors and record the values in Table 1 below.

Table 1: Measured Values of Resistors

Resistor	Measured Value
R_1	
R_2	
R_3	

2. Construct the circuit shown in Figure 1 below. Turn the power supply off and then connect it to the breadboard.

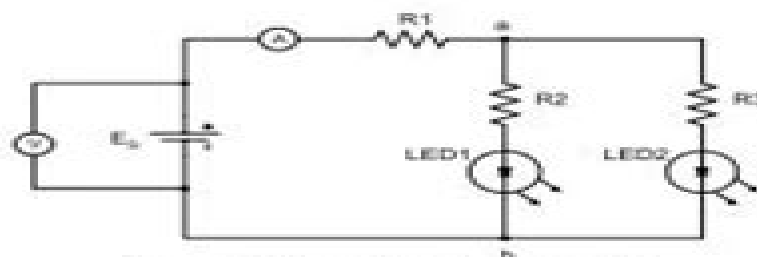


Figure 1: Series-parallel circuit containing LEDs

Series And Parallel Circuits Lab Answers

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Table of Contents Series And Parallel Circuits Lab Answers

1. Understanding the eBook Series And Parallel Circuits Lab Answers
 - The Rise of Digital Reading Series And Parallel Circuits Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Series And Parallel Circuits 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 Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Series And Parallel Circuits Lab Answers
 - Personalized Recommendations
 - Series And Parallel Circuits Lab Answers User Reviews and Ratings
 - Series And Parallel Circuits Lab Answers and Bestseller Lists
5. Accessing Series And Parallel Circuits Lab Answers Free and Paid eBooks
 - Series And Parallel Circuits Lab Answers Public Domain eBooks
 - Series And Parallel Circuits Lab Answers eBook Subscription Services
 - Series And Parallel Circuits Lab Answers Budget-Friendly Options

6. Navigating Series And Parallel Circuits Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Series And Parallel Circuits Lab Answers Compatibility with Devices
 - Series And Parallel Circuits Lab Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Series And Parallel Circuits Lab Answers
 - Highlighting and Note-Taking Series And Parallel Circuits Lab Answers
 - Interactive Elements Series And Parallel Circuits Lab Answers
8. Staying Engaged with Series And Parallel Circuits Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Series And Parallel Circuits Lab Answers
9. Balancing eBooks and Physical Books Series And Parallel Circuits Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Series And Parallel Circuits 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 Lab Answers
 - Setting Reading Goals Series And Parallel Circuits Lab Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Series And Parallel Circuits Lab Answers
 - Fact-Checking eBook Content of Series And Parallel Circuits 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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