

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.

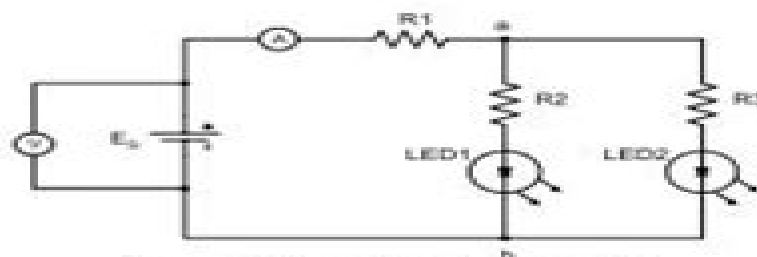


Figure 1: Series-parallel circuit containing LEDs

# Series And Parallel Circuits Lab Answers

**Michal Rosen-Zvi**



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