

LAB 4

Series & Parallel Circuits

OBJECTIVES

1. Practice building circuits from circuit diagrams.
2. Practice measuring voltages and current in series and parallel circuits.
3. Predict and correctly measure the voltages, currents, and resistances of series & parallel circuits.

EQUIPMENT

DC Power Supply, resistors, Mystery Circuits

PROCEDURE

Part 1: Series Circuit

Construct the circuit



- a. Predict and measure the voltages v_1 , v_2 , and v_3 using the VDR with the measured resistor values. How do they compare?
- b. Predict and measure the source current using the equivalent resistance and Ohm's law. How do they compare?
- c. Measure the current before and after the 100Ω resistor. Was any current "used up" by the 100Ω resistor?

Questions:

- Which resistor has the largest voltage drop? Are the voltages $v_2 = v_3$? Why?
- Is KVL satisfied by this circuit?

Part 2: Parallel Circuit

Construct the circuit



- a. Noting the nominal values of the resistors, how would you expect the magnitude of i_1 to compare to i_2 simply by looking at the magnitude of the resistors?
- b. Predict and measure the current through R_1 and R_2 using Ohm's Law? How do they compare?
- c. Predict and measure the source current using Kirchhoff's Current Law (KCL). How do they compare?

Questions:

- Which resistor had the largest current? Which resistor had the largest voltage?
- Is KCL satisfied by this circuit?

Part 3: Series and Parallel Circuits

Construct the circuit

Series And Parallel Circuits Lab Answers

Rosina Ehmman



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