

Experiment 10 Series and Parallel Circuit (Using PhET Simulation Tool)

Objective

1. Learn to build up series circuit and a parallel circuit with three resistors.
2. Use PhET interactive simulation tool ([Circuit Construction Kit: AC Prototypes](#)) to build the circuits and Verify Ohm's Law

Theory

The relations for two resistors in series and parallel circuits are the following:

Series Circuit

$$R_{total} = R_1 + R_2 \quad (1)$$

$$I_{total} = I_1 = I_2 \quad (2)$$

$$\Delta V = \Delta V_1 + \Delta V_2 \quad (3)$$



Figure 1 Two resistor in series

Parallel Circuit

$$\frac{1}{R_{total}} = \frac{1}{R_1} + \frac{1}{R_2} \quad (4)$$

$$I_{total} = I_1 + I_2 \quad (5)$$

$$\Delta V = \Delta V_1 = \Delta V_2 \quad (6)$$



Figure 2 Two resistor in parallel

Equipment

PhET interactive simulation tool ([Circuit Construction Kit: DC - Virtual Lab](#))

<https://phet.colorado.edu/en/simulation/circuit-construction-kit-dc-virtual-lab>

Procedures

Build the circuit as shown in Figure 1 by using PhET Simulation Tool

1. Click the above http link, you will see

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