



Experiment 4

Series DC Circuits

Objectives:
To examine of basic series DC circuits with resistors. A key element is Kirchoff's Voltage Law (KVL), which states that the sum of voltage rises around a loop must equal the sum of the voltage drops.

◆ Theory Overview

A series circuit is a single loop in which all components arranged in daisy chain. The current is the same at all points in the loop and may found by dividing the total voltage source by the total resistance. The voltage drops across any resistor may found by multiplying that current by the resistor value.

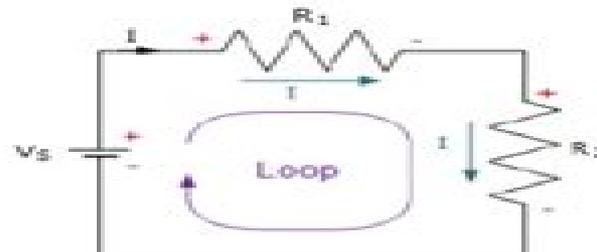


Figure 4.1: Single circuit loop.

Since the two resistors, R_1 and R_2 are wired together in a series connection; they are both part of the same loop so the same current must flow through each resistor. Thus the voltage drop across resistor (1), $V_{R1} = I \times R_1$ and the voltage drop across resistor (2), $V_{R2} = I \times R_2$ giving by KVL:

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