

7 The Voltage Divider



OBJECTIVES:

After performing this experiment, you will be able to:

1. Apply the voltage divider rule to series resistive circuits.
2. Design a voltage divider to meet a specific voltage output.
3. Confirm experimentally the circuit designed in objective 2.
4. Determine the range of voltages available when a variable resistor is used in a voltage divider.

READING:

Floyd and Buchla, *Principles of Electric Circuits*, Sections 5-7 through 5-10 and Application Activity

MATERIALS NEEDED:

Resistors:

One 330 Ω , one 470 Ω , one 680 Ω , one 1.0 k Ω

One 1 k Ω potentiometer

For Further Investigation: One 1.0 k Ω resistor, one 10 k Ω resistor, one 100 k Ω resistor

Application Problem: Resistors to be determined by student

SUMMARY OF THEORY:

A voltage divider consists of two or more resistors connected in series with a voltage source. Voltage dividers are used to obtain a specific voltage from a larger source voltage. The application of voltage dividers is also frequently useful for more complex circuit analysis. The application of Ohm's law to a series circuit leads us directly to the equation for a voltage divider. Consider the series circuit illustrated in Figure 7-1. The current in the circuit, I_T , and the output voltage, V_X , can be written as

$$I_T = \frac{V_S}{R_T}$$

$$V_X = I_T R_2$$

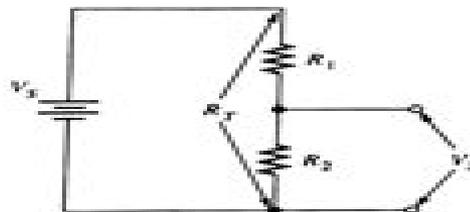


Figure 7-1

Substituting the first equation into the second gives the voltage divider equation for the two-resistor divider, as follows:

$$V_X = I_T R_2 = \left(\frac{V_S}{R_T} \right) R_2 = V_S \left(\frac{R_2}{R_T} \right)$$

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Thomas Griffiths



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