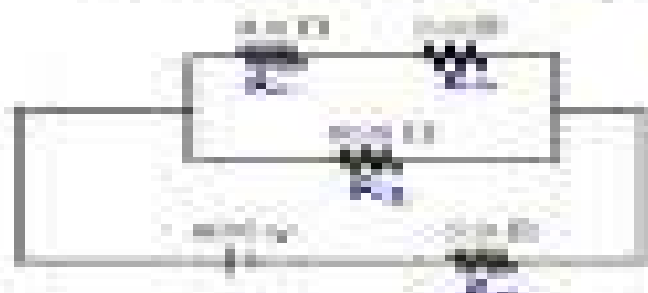


Electrical Fundamentals Study Guide

1. Explain why the voltage divider circuit is used to measure the resistance of a component. How is the voltage divider circuit used to measure the resistance of a component? (The voltage divider circuit is used to measure the resistance of a component by comparing the voltage drop across the component to the voltage drop across a known resistor.)



2. Calculate the voltage divider circuit. (The voltage divider circuit is used to measure the resistance of a component by comparing the voltage drop across the component to the voltage drop across a known resistor.)
3. Calculate the voltage divider circuit.



$$V_{out} = V_{in} \times \frac{R_2}{R_1 + R_2} = 10V \times \frac{100\Omega}{100\Omega + 100\Omega} = 5V$$



$$R_{total} = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2}} = \frac{1}{\frac{1}{100\Omega} + \frac{1}{100\Omega}} = \frac{1}{\frac{2}{100\Omega}} = 50\Omega$$



$$R_{total} = R_1 + R_2 = 100\Omega + 100\Omega = 200\Omega$$

4. Calculate the voltage divider circuit. (The voltage divider circuit is used to measure the resistance of a component by comparing the voltage drop across the component to the voltage drop across a known resistor.)
5. Calculate the voltage divider circuit. (The voltage divider circuit is used to measure the resistance of a component by comparing the voltage drop across the component to the voltage drop across a known resistor.)
6. Calculate the voltage divider circuit. (The voltage divider circuit is used to measure the resistance of a component by comparing the voltage drop across the component to the voltage drop across a known resistor.)

Transit Electrical Study Guide

Irvin N. Gleim



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