



Name: Janessa Chang

Date: 08-19-2022

Student Exploration: Advanced Circuits

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

[Note to teachers and students: This Gizmo was designed as a follow-up to the Circuits Gizmo. We recommend doing that activity before trying this one.]

Vocabulary: circuit breaker, equivalent resistance, fuse, Ohm's law, parallel circuit, series circuit

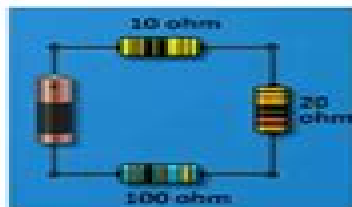
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. What is the mathematical relationship between current, resistance, and voltage?

$V=IR$

2. What is the **equivalent resistance** (total resistance) of the **series circuit** shown at left?

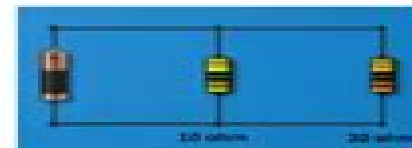
130 ohms



Gizmo Warm-up

In the *Circuits Gizmo*, you learned how to use **Ohm's law**: $I = V/R$, to determine the current in parallel and series circuits. But how do you find the resistance and current in a complex circuit that has both series and parallel elements?

First, review how to find the equivalent resistance of a **parallel circuit**. Use the *Advanced Circuits Gizmo* to construct the parallel circuit shown at right, using a 10-ohm and a 20-ohm resistor. Set the **Selected battery voltage** to 20 volts.



1. Move the Ammeter next to the battery. What is the current?
2. Based on Ohm's law, what is the equivalent resistance in the circuit?

3A

6.67 ohms

3. You can calculate the equivalent resistance of a parallel circuit using the following equation:

$$\frac{1}{R_{\text{Total}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \dots + \frac{1}{R_n}$$

Based on this equation, what is the equivalent resistance of the circuit?

6.67 ohms

Advanced Circuits Answer Key

Frank R. Spellman



Advanced Circuits Answer Key:

Advanced Circuits for Emerging Technologies Krzysztof Iniewski, 2012-04-17 The book will address the state of the art in integrated circuit design in the context of emerging systems New exciting opportunities in body area networks wireless communications data networking and optical imaging are discussed Emerging materials that can take system performance beyond standard CMOS like Silicon on Insulator SOI Silicon Germanium SiGe and Indium Phosphide InP are explored Three dimensional 3 D CMOS integration and co integration with sensor technology are described as well The book is a must for anyone serious about circuit design for future technologies The book is written by top notch international experts in industry and academia The intended audience is practicing engineers with integrated circuit background The book will be also used as a recommended reading and supplementary material in graduate course curriculum Intended audience is professionals working in the integrated circuit design field Their job titles might be design engineer product manager marketing manager design team leader etc The book will be also used by graduate students Many of the chapter authors are University Professors

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