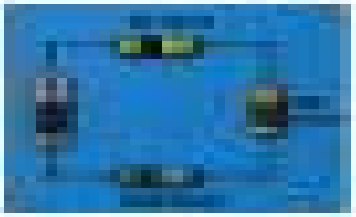
Student Exploration: Advanced Circuits

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



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

Vis IR

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

[illegible]

Gizmo Warmup

In this Circuits Gizmo, you hypothesize 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 resistance?

First, we are hoping that the equivalent resistance of a **parallel circuit**. Use the Equivalent Circuits Gizmo to construct the parallel circuit shown at right, using a 2Ω-ohm and a 20-ohm resistor. Set the **Equivalent battery voltage** to 20 volts.

1. Move the **Assembler** near to the battery. What is the current?

1. [illegible]

2. Based on Ohm's law, what is the equivalent resistance in the circuit?

[illegible]

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

$$\frac{1}{R_{total}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \cdots + \frac{1}{R_n}$$

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

[illegible]

Advanced Circuits Exploration Guide 2015

Anthony S. Fauci

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Exploring the DataFlow Supercomputing Paradigm Veljko Milutinovic,Milos Kotlar,2019-05-27 This useful text reference describes the implementation of a varied selection of algorithms in the DataFlow paradigm highlighting the exciting potential of DataFlow computing for applications in such areas as image understanding biomedicine physics simulation and business The mapping of additional algorithms onto the DataFlow architecture is also covered in the following Springer titles from the same team DataFlow Supercomputing Essentials Research Development and Education DataFlow Supercomputing Essentials Algorithms Applications and Implementations and Guide to DataFlow Supercomputing Topics and Features introduces a novel method of graph partitioning for large graphs involving the construction of a skeleton graph describes a cloud supported web based integrated development environment that can develop and run programs without DataFlow hardware owned by the user showcases a new approach for the calculation of the extrema of functions in one dimension by implementing the Golden Section Search algorithm reviews algorithms for a DataFlow architecture that uses matrices and vectors as the underlying data structure presents an algorithm for spherical code design based on the variable repulsion force method discusses the implementation of a face recognition application using the DataFlow paradigm proposes a method for region of interest based image segmentation of mammogram images on high performance reconfigurable DataFlow computers surveys a diverse range of DataFlow applications in physics simulations and investigates a DataFlow implementation of a Bitcoin mining algorithm This unique volume will prove a valuable reference for researchers and programmers of DataFlow computing and supercomputing in general Graduate and advanced undergraduate students will also find that the book serves as an ideal supplementary text for courses on Data Mining Microprocessor Systems and VLSI Systems *Exploring the Intricacies of Digital and Analog VLSI* Guha, Koushik,Kandpal, Jyoti,Devi, Swagata,2025-04-16 Advancements in Very Large Scale Integration VLSI technology are at the heart of modern electronic innovation enabling the integration of millions of transistors onto a single chip This field is essential for developing efficient high performance systems that power everything from smartphones to advanced computing technologies By addressing both digital and analog VLSI design this topic explores the challenges and solutions involved in optimizing power signal integrity and functionality The impact of VLSI extends across industries driving technological progress and shaping the future of electronics in an increasingly interconnected world Exploring the Intricacies of Digital and Analog VLSI explores advanced techniques practical applications and emerging trends in both digital and analog VLSI It consolidates existing knowledge while introducing cutting edge methodologies and insights shaping the trajectory of future research endeavors in VLSI This book covers topics such as electrical engineering optimization techniques and computer science and is a useful resource for engineers computer scientists academicians and researchers *The Routledge International Handbook of Engineering Ethics Education* Shannon Chance,Tom Børsen,Diana Adela Martin,Roland Tormey,Thomas Taro Lennerfors,Gunter

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