

Experiment 10 Series and Parallel Circuit (Using PhET Simulation Tool)

Objective

1. Learn to build up series circuit and a parallel circuit with three resistors.
2. Use PhET interactive simulation tool ([Circuit Construction Kit AC Prototype](#)) to build the circuits and Verify Ohm's Law

Theory

The relations for two resistors in series and parallel circuits are the following:

Series Circuit

$$R_{total} = R_1 + R_2 \quad (1)$$

$$I_{total} = I_1 = I_2 \quad (2)$$

$$\Delta V = \Delta V_1 + \Delta V_2 \quad (3)$$



Figure 1 Two resistor in series

Parallel Circuit

$$\frac{1}{R_{total}} = \frac{1}{R_1} + \frac{1}{R_2} \quad (4)$$

$$I_{total} = I_1 + I_2 \quad (5)$$

$$\Delta V = \Delta V_1 = \Delta V_2 \quad (6)$$

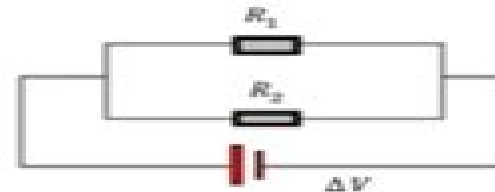


Figure 2 Two resistor in parallel

Equipment

PhET interactive simulation tool (Circuit Construction Kit: DC - Virtual Lab)

<https://phet.colorado.edu/en/simulation/circuit-construction-kit-dc-virtual-lab>

Procedures

Build the circuit as shown in Figure 1 by using PhET Simulation Tool

1. Click the above http link, you will see

Series And Parallel Circuits Basics Phet Answers

Dale Patrick, Stephen Fardo



Series And Parallel Circuits Basics Phet Answers:

Principles of Electric Circuits Thomas L. Floyd, 2000 CD ROM includes 100 EWB circuits for the textbook s troubleshooting and analysis problems demonstration version of EWB version 5 X software and a full student version of EWB version 5 X available for purchase Preface **Basic Electricity and DC Circuits** Ralph A. Oliva, Charles Wilfred Dale, 1979

Understanding DC Circuits Dale Patrick, Stephen Fardo, 1999-12-20 Understanding DC Circuits covers the first half of a basic electronic circuits theory course integrating theory and laboratory practice into a single text Several key features in each unit make this an excellent teaching tool objectives key terms self tests lab experiments and a unit exam Understanding DC Circuits is designed with the electronics beginner and student in mind The authors use a practical approach exposing the reader to the systems that are built with DC circuits making it easy for beginners to master even complex concepts in electronics while gradually building their knowledge base of both theory and applications Each chapter includes easy to read text accompanied by clear and concise graphics fully explaining each concept before moving onto the next The authors have provided section quizzes and chapter tests so the readers can monitor their progress and review any sections before moving onto the next chapter Each chapter also includes several electronics experiments allowing the reader to build small circuits and low cost projects for the added bonus of hands on experience in DC electronics Understanding DC Circuits fully covers dozens of topics including energy and matter static electricity electrical current conductors insulators voltage resistance schematic diagrams and symbols wiring diagrams block diagrams batteries tools and equipment test and measurement series circuits parallel circuits magnetism electromagnetism inductance capacitance soldering techniques circuit troubleshooting basic electrical safety plus much more Integrates theory and lab experiments Contains course and learning objectives and self quizzes Heavily illustrated

Series And Parallel Circuits Basics Phet Answers Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Series And Parallel Circuits Basics Phet Answers**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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