

DC Circuits

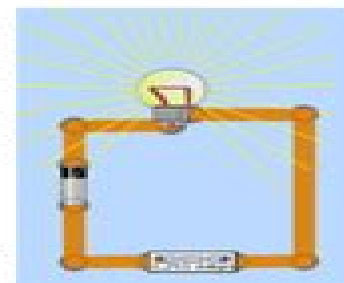
INTRODUCTION:

In this exercise you will be using a computer simulation called the [Circuit Construction Kit \(CCK\)](#) instead of real wires, bulbs, and resistors. The goals of this lab are to complete our understanding of how voltage, current, and resistance relate to each other in circuits, and to learn how to use an ammeter to measure current directly.

NOTES:

To measure how much current is flowing through a circuit, the current needs to flow **through** the ammeter. Recall that when we measured voltage differences, we attached the voltmeter in parallel with whatever we were measuring. To measure current, the ammeter needs to be placed in **series** with the element (resistor, bulb, battery) that we are measuring (see figure at right).

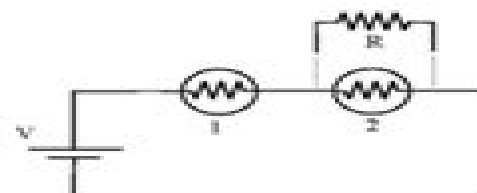
Ammeter configured to measure current.



PART I: MEASURING CURRENT DIRECTLY WITH THE AMMETER

Drag and drop one $R=2\ \Omega$ resistor into the work area (if you right click on a resistor, you can change its resistance) and two light bulbs into your work area.

Construct the circuit shown on the right, consisting of two light bulbs (with the same resistance) in series with a battery. (The resistor $R=2\ \Omega$ will be connected later). Increase the voltage across the battery to 20 V (right click on the battery to change its voltage).



Predict what will happen to the **current flowing from the battery** when you place a ($R = 2\ \Omega$) resistor in parallel with bulb #2 as shown in the schematic. Explain your reasoning.

Solution For Dc Circuit Lab

Ian Pickup



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EE809--DC Circuits Laboratory Lab Guide Bernard L. Guss,1985 *Simulation-based Labs for Circuit Analysis* Massimo Mitolo,2024-08-16 Simulation based Labs for Circuit Analysis brings you an unparalleled learning experience integrating cutting edge simulation tools Multisim Live and Tinkercad to explore the realm of circuits Circuit analysis is the cornerstone of electrical and electronic engineering and with the advent of advanced simulation software learning has taken a transformative turn Delve into a virtual laboratory environment that replicates real world circuit experiments with precision and flexibility allowing you to grasp complex concepts effortlessly Recreate experiments multiple times gaining deeper insights into circuit characteristics and behavior across various scenarios Aspiring engineers and technicians circuit enthusiasts and educators will find Simulation based Labs for Circuit Analysis an indispensable resource for unlocking the boundless possibilities of circuit analysis in the digital age Whether you are a student seeking to excel in your studies or a professional looking to refine your engineering skills this book will empower you to innovate explore and experiment without limits

CCDE v3 Practice Labs Martin J. Duggan,2022-07-27 In depth super realistic lab prep for the Cisco CCDE v3 Practical Exam CCDE demonstrates your expert level ability to design networks correctly from the outset so they re easier to manage and scale for years to come The CCDE v3 update makes this credential more valuable than ever but high quality cost effective lab training has been extremely scarce CCDE v3 Practice Labs fills that gap coaching you through essential preparation for the scenario based Cisco CCDE Practical Exam v3 Martin James Duggan draws on 20 years of experience designing global Cisco networks mentoring colleagues at world class networking organizations and personally contributing to Cisco s CCDE exam updates His three highly realistic scenario based labs are carefully designed to match the real exam s complexity and format and are supported with detailed debriefs explaining why the correct answers are right and the distractors are wrong Duggan presents an insider s overview of the updated exam blueprint offering indispensable guidance for approaching an intense 8 hour exam unlike any you might have experienced Throughout he focuses on why not just how helping you develop the right mindset fully evaluate your readiness and integrate missing knowledge you need to succeed Show you can design high value solutions that reflect the big picture business strategy and real world constraints Validate your ability to collaborate with and delight key stakeholders Quickly capture key design insights from the information customers provide Practice integrating diverse transport control plane virtualization security wireless automation and data center technologies covered by CCDE Discover what you don t know and need to know in order to pass Get expert strategies for overcoming the Practical Exam s unique challenges

SCL-DC ,1965 **DC Electric Machines, Electromechanical Energy Conversion Principles, and Magnetic Circuit Analysis** Mehdi Rahmani-Andebili,2022-10-10 This study guide is designed for students taking courses in DC electric machines principles of electromechanical energy conversion and magnetic circuit analysis The textbook includes examples questions and exercises that will help electrical engineering

students to review and sharpen their knowledge of the subject and enhance their performance in the classroom Offering detailed solutions multiple methods for solving problems and clear explanations of concepts this hands on guide will improve student s problem solving skills and basic and advanced understanding of the topics covered

The Coast Guard Engineer's Digest ,1960 *Advances on remote laboratories and e-learning experiences* Luís Gomes,Javier Garcia Zubia,2008 This book provides a comprehensive overview on several aspects of remote laboratories development and usage and their potential impact in the teaching and learning processes using selected e learning experiences The book is based on the presentations and discussions carried out at International Meeting on Professional Remote Laboratories which took place in University of Deusto Bilbao in the period of November 16 17 2006 Apart from chapters based on the presentations some others have also been included in this book In this way we hope to give a broad well balanced and up to date picture of the current status of remote labs and their role within the e learning paradigm

Statement of Disbursements of the House
United States. Congress. House,1996 Covers receipts and expenditures of appropriations and other funds

Nuclear Science Abstracts ,1969 Scientific and Technical Aerospace Reports ,1995

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