Experiment: Series and Parallel Circuits

OBJECTIVES

- To study current flow and voltages in series and parallel circuits.
- To use Ohm's law to calculate equivalent resistance of series and parallel circuits.

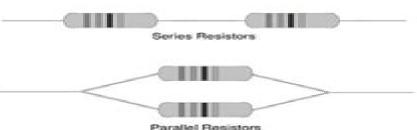
MATERIALS

- Windows PC
- LabPro Interface
 - Logger Pro
- Current & Voltage Probe System
- low-voltage DC power supply

- two 10-Ω resistors
- two 50-Ω resistors two 68-Ω resistors
- momentary-contact switch
- connecting wires

Components in an electrical circuit are in series when they are connected one after the other, so that the same current flows through both of them. Components are in parallel when they are in alternate branches of a circuit. Series and parallel circuits function differently. You may have noticed the differences in electrical circuits you use. When using some decorative holiday light circuits, if one lamp burns out, the whole string of lamps goes off. These lamps are in series. When a light bulb burns out in your house, the other lights stay on. Household wiring is normally in parallel.

You can monitor these circuits using a Current and Voltage Probe System and see how they operate. The goal of this experiment is to study circuits made up of two resistors in series or parallel.



PRELIMINARY QUESTIONS

1. How do series resistors affect current flow? What would you expect the effective resistance of two equal resistors in series to be, compared to the resistance of a single resistor?

How do parallel resistors affect current flow? What would you expect the effective resistance of two equal resistors in parallel to be, compared to the resistance of one alone?

Series And Parallel Circuits Lab Answers

Edward Britton

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Scientifica Essentials Peter Ellis, Derek McMonagle, 2004 Bring your science lessons to life with Scientifica Providing just the right proportion of reading versus doing these engaging resources are differentiated to support and challenge pupils of **Electricity for Computer Systems 4th Edition** John Dekker, 2013-10-11 Introduction to basic electricity principles relevant to computer systems technicians This workbook is designed to help students with a weak math background understand AC DC principles as they apply to computer systems and networking The book places an emphasis on engineering prefixes and units Basic electrical test and measurement procedures are introduced in the workbook s included Improving High School Students' Performance in Electricity Utilizing Increased Student laboratory manual **Involvement in the Learning Process** Tamera Sue Hetfield, 2000 Exploring Physical Science in the Laboratory John T. Salinas, 2019-02-01 This full color manual is designed to satisfy the content needs of either a one or two semester introduction to physical science course populated by nonmajors It provides students with the opportunity to explore and make sense of the world around them to develop their skills and knowledge and to learn to think like scientists The material is written in an accessible way providing clearly written procedures a wide variety of exercises from which instructors can choose and real world examples that keep the content engaging Exploring Physical Science in the Laboratory guides students through the mysteries of the observable world and helps them develop a clear understanding of challenging concepts

Back to Pakistan Leslie Noyes Mass,2011-10-15 In 1962 a newly minted college graduate answered the call of President John F Kennedy and joined the fledgling Peace Corps Leslie Noyes Mass was assigned to Pakistan and given the directive to start a program any kind of educational program she could muster in a small Muslim village where she was the only Westerner and the only Peace Corps volunteer After a year she left the village frustrated and feeling that she had made no impact at all Nearly 50 years later she returned to discover a much changed Pakistan and a village that still remembers her She tells both her stories from 1962 and today by deftly interweaving her journal entries from 50 years ago with her current day story as a volunteer training female teachers for a Pakistani non governmental institution Leslie Mass captures the heart and the attention of the reader with her story of Pakistanis in 1962 and those of a new generation who are engaged in building a sustainable education system for their country s forgotten children In a series of interviews with Pakistanis from every social class and educational level Dr Mass gives voice to those who are taking responsibility for their country s educational problems and solving these problems within the traditions culture and religious understanding of their people Back to Pakistan A Fifty Year Journey is a compelling look into a country as it goes from its infancy into the 21st century ,

<u>ELECTRONICS LAB MANUAL Volume I, FIFTH EDITION</u> NAVAS, K. A.,2015-09-11 This lab manual is intended to support the students of undergraduate engineering in the related fields of electronics engineering for practicing laboratory experiments It will also be useful to the undergraduate students of electrical science branches of engineering and applied

science This book begins with an introduction to the electronic components and equipment and the experiments for electronics workshop Further it covers experiments for basic electronics lab electronic circuits lab and digital electronics lab A separate chapter is devoted to the simulation of electronics experiments using PSpice Each experiment has aim components and equipment required theory circuit diagram tables graphs alternate circuits answered questions and troubleshooting techniques Answered viva voce questions and solved examination questions given at the end of each experiment will be very helpful for the students The purpose of the experiments described here is to acquaint the students with Analog and digital devices Design of circuits Instruments and procedures for electronic test and measurement

Experiments for Electrical Circuit Analysis with BASIC Programming Theodore F. Bogart, 1982 Scientific and Technical Aerospace Reports , 1991 Handbook of Research on Driving STEM Learning With Educational Technologies Ramírez-Montoya, María-Soledad, 2017-02-01 Educational strategies have evolved over the years due to research breakthroughs and the application of technology By using the latest learning innovations curriculum and instructional design can be enhanced and strengthened The Handbook of Research on Driving STEM Learning With Educational Technologies is an authoritative reference source for the latest scholarly research on the implementation and use of different techniques of instruction in modern classroom settings Featuring exhaustive coverage on a variety of topics including data literacy student motivation and computer aided assessment this resource is an essential reference publication ideally designed for academicians researchers and professionals seeking current research on emerging uses of technology for STEM education

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