LAB 4 Series & Parallel Circuits

OBJECTIVES

- Practice building circuits from circuit diagrams.
- Practice measuring voltages and current in series and parallel circuits.
- Predict and correctly measure the voltages, currents, and resistances of series & parallel circuits.

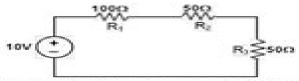
EQUIPMENT

DC Power Supply, resistors, Mystery Circuits

PROCEDURE

Part 1: Series Circuit

Construct the circuit



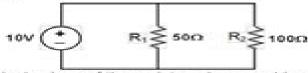
- a. Predict and measure the voltages v₁, v₂, and v₃ using the VDR with the measured resistor values. How do they compare?
- b. Predict and measure the source current using the equivalent resistance and Ohm's law. How do they compare?
- c. Measure the current before and after the 100Ω resistor. Was any current "used up" by the 100Ω resistor?

Questions:

- Which resistor has the largest voltage drop? Are the voltages v₂ = v₃? Why?
- Is KVL satisfied by this circuit?

Part 2: Parallel Circuit

Construct the circuit



- a. Noting the nominal values of the resistors, how would you expect the magnitude of into compare to i2 simply by looking at the magnitude of the resistors?
- b. Predict and measure the current through R₁ and R₂ using Ohm's Law? How do they compare?
- c. Predict and measure the source current using Kirchhoff's Current Law (KCL). How do they compare?

Questions:

- Which resistor had the largest current? Which resistor had the largest voltage?
- Is KCL satisfied by this circuit?

Part 3: Series and Parallel Circuits

Construct the circuit

Series And Parallel Circuits Lab

Brendan G. Carr

Series And Parallel Circuits Lab:

An Introduction to Electrical Engineering with Lab Activities Gary H. Bernstein, 2025-12-02 Electrical engineering is an extremely broad and fast changing profession that is rooted in many difficult concepts Students might have a difficult time appreciating the relevance of the fundamental concepts that they are asked to grasp early in their education Many difficult concepts are obscured by the traditional use of mathematics early in the treatments without sufficient exposure to the underlying meaning of the equations This book has the dual goals of teaching difficult fundamental concepts in a way that will set them up for success in later courses while also providing the context for those concepts relative to the advances in electrical engineering technology The topics covered are basic electricity laboratory bench equipment the power grid and residential wiring complex impedance time and frequency domains filters phasors radio frequency electromagnetic waves modulation semiconductor materials and devices light emission energy and power energy efficiency digital signal processing Nyquist criterion aliasing battery technology and power supplies Traditionally electrical engineering students are first given a course in circuit analysis this is not such a book but does include enough background on circuits that the book can mostly stand alone Each chapter takes on an important practical topic that helps to advance the students basic skill set including sophisticated laboratory activities The book may stand alone as a textbook with the lab parts providing even more context and understanding even if students do not actually do those lab activities Electronic Technology, 1960 Electrical Technology United States. Division of Vocational Education, 1960 **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

Electric Circuits Laboratory Manual Farzin Asadi,2023-03-27 This book provides insights into practical aspects of electric circuits The author provides real world examples throughout this book The devices chosen for this book can be found in nearly all laboratories No expensive measurement devices are used throughout the book Someone who reads this book has a better understanding of practical aspects of electric circuits Chapter 1 introduces tools that will be used in the next chapters Chapter 2 studies the resistors and contains 9 experiments Chapter 3 studies the digital multimeters and contains 7 experiments Chapter 4 studies Kirchhoff s voltage current law nodal mesh analysis and Thevenin equivalent circuits This chapter contains 5 experiments Chapter 5 studies the first and second order circuits RC RL and RLC and contains 4 experiments Chapter 6 studies the DC and AC steady state behavior of electric circuits and frequency response of filters and

has 5 experiments Chapter 7 studies magnetic coupling and transformers and contains 3 experiments Appendix A shows how different types of graphs can be drawn with MATLAB Appendix B reviews the concept of root mean square Techniques in Physics - 2 Mr. Rohit Manglik, 2024-03-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Circuit Analysis Laboratory Workbook Teri L. Piatt, Kyle E. Laferty, 2022-06-01 This workbook integrates theory with the concept of engineering design and teaches troubleshooting and analytical problem solving skills It is intended to either accompany or follow a first circuits course and it assumes no previous experience with breadboarding or other lab equipment This workbook uses only those components that are traditionally covered in a first circuits course e g voltage sources resistors potentiometers capacitors and op amps and gives students clear design goals requirements and constraints Because we are using only components students have already learned how to analyze they are able to tackle the design exercises first working through the theory and math then drawing and simulating their designs and finally building and testing their designs on a breadboard RealTime Physics: Active Learning Laboratories, Module 3 David R. Sokoloff, Priscilla W. Laws, 2012-01-03 RealTime Physics is a series of introductory laboratory modules that use computer data acquisition tools microcomputer based lab or MBL tools to help students develop important physics concepts while acquiring vital laboratory skills Besides data acquisition computers are used for basic mathematical modeling data analysis and simulations There are 4 RealTime Physics modules Module 1 Mechanics Module 2 Heat and Thermodynamics Module 3 Electricity and Magnetism and Module 4 Light and Optics Cyber-Physical Laboratories in Engineering and Science Education Michael E. Auer, Abul K.M. Azad, Arthur Edwards, Ton de Jong, 2018-04-26 This volume investigates a number of issues needed to develop a modular effective versatile cost effective pedagogically embedded user friendly and sustainable online laboratory system that can deliver its true potential in the national and global arenas This allows individual researchers to develop their own modular systems with a level of creativity and innovation while at the same time ensuring continuing growth by separating the responsibility for creating online laboratories from the responsibility for overseeing the students who use them The volume first introduces the reader to several system architectures that have proven successful in many online laboratory settings. The following chapters then describe real life experiences in the area of online laboratories from both technological and educational points of view The volume further collects experiences and evidence on the effective use of online labs in the context of a diversity of pedagogical issues It also illustrates successful online laboratories to highlight best practices as case studies and describes the technological design strategies implementation details and classroom activities as well as learning from these developments Finally the volume describes the creation and deployment of commercial products tools and services for online laboratory development It also provides an idea about the developments

that are on the horizon to support this area **Basic Electronics** Sean Westcott, Jean Riescher Westcott, 2023-05-24 Designed for both the student and hobbyist this updated revision is an introduction to the theory and practice of electronics including advances in microcontrollers sensors and wireless communication Each chapter contains a brief lab to demonstrate the topic under discussion then moves on to use all of the knowledge mastered to build a programmable robot New material on using Raspberry Pi and Python has been included The companion files include short videos of the labs soldering skills and code samples for programming the robot Covering both the theory and also its practical applications this text leads the reader through the basic scientific concepts underlying electronics building basic circuits learning the roles of the components the application of digital theory and the possibilities for innovation by combining sensors motors and microcontrollers It includes appendices on mathematics for electronics a timeline of electronics innovation careers in electronics and a glossary Features Includes companion files with over twenty video tutorials on currents soldering power supply resistors decoder circuits Raspberry Pi animations of featured circuits and more files available from the publisher for downloading Features chapters on using Raspberry Pi and Python in electronic projects and a chapter on Cybersecurity and the Internet of Things IoT for Electronic Projects Leads the reader through an introductory understanding of electronics with simple labs and then progresses to the construction of a microcontroller driven robot using opensource software and hardware

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web board members and superintendent during the 2020 21 fiscal year dr kamela patton served as superintendent of the collier county schools and the following individuals served as school board members district no dr jory westberry 1 stephanie lucarelli chair through 11 16 20 2 jen mitchell vice chair from 11 17 20 3

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web the collier county school board is vested by the florida constitution with the responsibility to operate control and supervise all free public schools within the district the board appoints the superintendent of schools who is the secretary and executive officer of the school board and who administers the daily operations of the district

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web the district school board of collier county is the five member elected policy making body of the school district members serve staggered four year terms the school board elects a chair and a vice chair annually in november and appoints the superintendent of schools who administers the operations of the schools and the school district

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web the school district of collier county ccps serves more than 47 000 total students in 29 elementary schools 10 middle schools 8 high schools and a prek thru 12 school everglades city school

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web contact me school board office 239 377 0491 email kelly lichter collierschools com biography kelly lichter is a wife mother of two children former teacher and the founding board president of mason classical academy parents students home collierschools com - Oct 05 2022

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web nov 9 2022 naples daily news the votes are in and challengers jerry rutherford kelly lichter and tim moshier have been elected to the collier county school board they were decided victories with

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web 22 hours ago the collier county school board approved a nearly 1 6 billion budget for 2023 24 in a 3 2 vote monday that s a budget increase of roughly 120 million from the 1 4 billion budget from the 2022 23 fiscal year the tax rate of 4 292 mills dollars per 1 000 in assessed property value passed by the board is 10 66 greater than the

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web aug 8 2023 board members erick carter kelly lichter stephanie lucarelli tim moshier jerry rutherford meetings monday september 11 2023 final budget hearing monday september 11 2023 regular school board meeting monday august 28 2023 tuesday august 8 2023 regular school board meeting monday july 31 2023 regular school

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web the district school board of collier county stephanie lucarelli chair erick carter vice chair roy m terry member jen mitchell member dr jory westberry member this report has been prepared by the district school board of collier county additional copies if available may be obtained by writing

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web the collier county public schools or district school board of collier county is a school district in collier county florida the district has schools in four cities throughout the county everglades city immokalee marco island and naples