

# LAB 4

## Series & Parallel Circuits

### OBJECTIVES

1. Practice building circuits from circuit diagrams.
2. Practice measuring voltages and current in series and parallel circuits.
3. 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  $v_1$ ,  $v_2$ , and  $v_3$  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  $100\Omega$  resistor. Was any current "used up" by the  $100\Omega$  resistor?

Questions:

- Which resistor has the largest voltage drop? Are the voltages  $v_2 = v_3$ ? 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  $i_1$  to compare to  $i_2$  simply by looking at the magnitude of the resistors?
- b. Predict and measure the current through  $R_1$  and  $R_2$  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

Laboratory 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

Series And Parallel Circuits Lab: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Series And Parallel Circuits Lab : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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this latest in the casemate illustrated series examines the waffen ss in normandy during the fierce fighting of june and july 1944 when they struggled to hold back the allied advance on caen though the picture was by no means one sided [district school board of collier county florida](#) - Jun 01 2022

web the management of the collier county district school board the district has prepared the following discussion and analysis to provide an overview of the district s financial activities for the fiscal year ended june [\*collier county public school district naples fl facebook\*](#) - Nov 06 2022

web collier county public school district naples florida 18 850 likes 645 talking about this 2 357 were here for more info visit [\*collierschools com\*](#)

[\*collier county district school board flauditor gov\*](#) - Feb 26 2022

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

[school board school board collierschools com](#) - Aug 15 2023

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

**school board school board members collierschools com** - Jun 13 2023

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

**collier county public schools homepage** - Jul 14 2023

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

[\*school board kelly lichtner collierschools com\*](#) - Feb 09 2023

web contact me school board office 239 377 0491 email kelly lichtner collierschools com biography kelly lichtner 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

web the centralized ccps portal is your first step in creating a ccps profile and or log into accessing your information and more for assistance contact grades collierschools com or call 239 377 0001 ccps portal is your first step in student laptop assistance pre k prepares children to be ready for school children who participate in high

collier county school board who won their elections naples daily news - Apr 11 2023

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

*collier county school board raises taxes to meet 1 6 billion* - Jan 28 2022

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

**collier county public schools florida ballotpedia** - Aug 03 2022

web collier county school board district 1 jerry rutherford november 22 2022 collier county school board district 2 stephanie lucarelli 2016 collier county school board district 3 kelly e lichtner november 22 2022 collier county school board district 4 erick carter 2016 collier county school board district 5 timothy moshier november

**district school board of collier county florida** - Apr 30 2022

web financial statements as of and for the year ended june 30 2019 and report of independent auditor district school board of collier county florida table of contents financial section

**collier county school board voter s guide to the 2022 candidates** - Sep 04 2022

web sep 7 2022 collier county voters will have the opportunity to vote for three school board seats on november 8 2022 seats in districts 1 3 and 5 will be decided between the primary and the november general election voters may select one candidate in each district regardless of what district they live in the four year terms are staggered with a

*district school board of collier county boarddocs a diligent* - Mar 10 2023

web aug 8 2023 board members erick carter kelly lichtner 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

**communications community engagement home collierschools com** - Jan 08 2023

web contact tiffany myers supervisor public records and communications tel 239 377 0180 fax 239 377 0181 email

communications collierschools com resources for media all media requests must come through the office of communications community engagement

**collier county school board develops new set of priorities** - Dec 07 2022

web feb 22 2023 submitted wgcu the collier county school board recently unanimously passed new mission and vision statements and a list of new school board priorities at a recent meeting new mission and

*collier county public schools florida elections 2022* - Jul 02 2022

web three seats on the collier county public schools school board in florida were up for general election on november 8 2022 a primary was scheduled for august 23 2022 the filing deadline for this election was may 16 2022 for petitioning candidates for candidates paying a fee the filing deadline was june 17 2022

*collier county fl home* - Dec 27 2021

web 10 00 am 23 8126 cctv maintenance repair and installation services selection committee meeting 1 00 pm conservation collier land acquisition advisory committee 3 00 pm 23 8138 collier county courthouse cable infrastructure rewiring bid opening

collier county public schools boarddocs a diligent brand - Mar 30 2022

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

*collier county public schools wikipedia* - May 12 2023

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