

Engineering Simulation Lab

Introduction to Circuits

This lab uses the [Circuit Construction Kit DC](https://phet.colorado.edu/sims/html/circuit-construction-kit-dc/latest/circuit-construction-kit-dc_en.html) simulation from PhET Interactive Simulations at University of Colorado Boulder, under the CC-BY 4.0 license.

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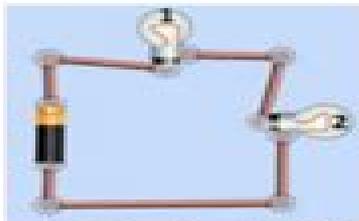
Learning Goals

- Explore basic electricity relationships.
- Explain basic electricity relationships in series and parallel circuits.
- Use an ammeter and voltmeter to take readings in circuits.
- Provide reasoning to explain the measurements and relationships in circuits.

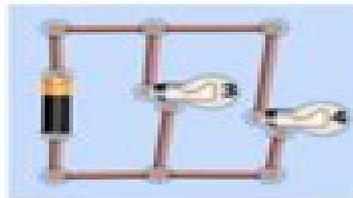
Prediction Questions

Consider the pictures of each of these circuits, then answer the questions below.

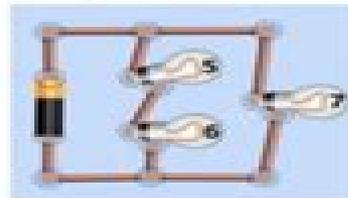
Series Circuit



Parallel Circuit



Complex Circuit



1. From the circuits above, predict which bulb (or bulbs) will be the brightest. Why do you think that?

Write your answer here:

2. Current is the flow of charge (measured in coulombs/sec = amps) in a circuit. Describe how you think current will flow in the different types of circuits above.

Develop your understanding:

3. Explore the [Intro](#) screen of Circuit Construction Kit DC
 - a. Build a circuit that shows how to make a light bulb light up.
 - b. Figure out how to measure current and voltage.
 - c. Insert an image of your circuit with the current and voltage measured.
4. Imagine you're an engineer making a string of battery powered holiday lights. If a bulb burns out current cannot flow through that bulb any longer like if the wire at the bulb has been cut. Figure out how to hook up 2 light bulbs and a battery so that when one bulb burns out or is disconnected the other stays lit.
 - a. Insert images to illustrate that your circuit works as expected.
 - b. Explain why you think it works.

Write your answer here:

5. Imagine that you want to make sure the battery for your string of lights will last as long as possible. A battery will last longer if it powers a circuit with low current. How could you hook up a battery and 2 light

Circuit Simulation Lab Answers

**Prof. Dr. Juergen Nitsch, Dr. Frank
Gronwald, Prof. Dr. Gunter Wollenberg**

Circuit Simulation Lab Answers:

Electric and Electronic Circuit Simulation using TINA-TI® Farzin Asadi, 2022-09-22 A circuit simulator is a computer program that permits us to see circuit behavior i e circuit voltages and currents without making the circuit Use of a circuit simulator is a cheap efficient and safe way to study the behavior of circuits The Toolkit for Interactive Network Analysis TINA is a powerful yet affordable SPICE based circuit simulation and PCB design software package for analyzing designing and real time testing of analog digital VHDL MCU and mixed electronic circuits and their PCB layouts This software was created by DesignSoft TINA TI is a spinoff software program that was designed by Texas Instruments TI in cooperation with DesignSoft which incorporates a library of pre made TI components for the user to utilize in their designs This book shows how a circuit can be analyzed in the TINA TI environment Students of engineering for instance electrical biomedical mechatronics and robotics to name a few engineers who work in the industry and anyone who wants to learn the art of circuit simulation with TINA TI can benefit from this book

Midwest Symposium on Circuits and Systems, 1977 **Circuit Analysis, Simulation and Design** Albert E. Ruehli, 1987 This book covers algorithmic aspects of computer aided circuit design for VLSI of large circuits The large scale aspect of VLSI requires a reorientation towards new and more efficient techniques Many algorithms have survived the test of time while others are suffering from the usual problem of polynomial or exponential running time complexity and storage requirements The approaches presented in this book are techniques which were developed in response to the VLSI problems The most recent exact circuit analysis and simulation techniques are presented such as waveform relaxation and timing simulation The book concentrates on the analysis and simulation of large circuits which exceed the capabilities of general purpose analyzers in both compute time and storage Also discussed are circuit models for switch level simulation techniques and circuit models for interconnections capacitance and inductances and optimization techniques The language and notation have been kept uniform throughout the book to help the reader to maintain the continuity between the topics discussed in the different chapters All algorithms are written in a Pascal style The terminology used should reflect the emerging language used in most of the VLSI circuit design community The book includes proven approaches as well as techniques which are presently in a research state

Electronic Experiences in a Virtual Lab Roberto Gastaldi, Giovanni Campardo, 2020-05-11 This book presents a collection of lessons on various topics commonly encountered in electronic circuit design including some basic circuits and some complex electronic circuits which it uses as vehicles to explain the basic circuits they are composed of The circuits considered include a linear amplifier oscillators counters a digital clock power supplies a heartbeat detector a sound equalizer an audio power amplifier and a radio The theoretical analysis has been deliberately kept to a minimum in order to dedicate more time to a learning by doing approach which after a brief review of the theory readers are encouraged to use directly with a simulator tool to examine the operation of circuits in a virtual laboratory Though the book is not a theory textbook readers should be familiar with the basic

principles of electronic design and with spice like simulation tools To help with the latter aspect one chapter is dedicated to the basic functions and commands of the OrCad P spice simulator used for the experiments described in the book

Introduction to Nonlinear Circuits and Networks Bharathwaj Muthuswamy,Santo Banerjee,2018-10-26 This course based text revisits classic concepts in nonlinear circuit theory from a very much introductory point of view the presentation is completely self contained and does not assume any prior knowledge of circuit theory It is simply assumed that readers have taken a first year undergraduate course in differential and integral calculus along with an elementary physics course in classical mechanics and electrodynamics Further it discusses topics not typically found in standard textbooks such as nonlinear operational amplifier circuits nonlinear chaotic circuits and memristor networks Each chapter includes a set of illustrative and worked examples along with end of chapter exercises and lab exercises using the QUCS open source circuit simulator Solutions and other material are provided on the YouTube channel created for this book by the authors [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 **Workgroups eAssessment: Planning,**

Implementing and Analysing Frameworks Rosalina Babo,Nilanjan Dey,Amira S. Ashour,2020-12-11 This book was developed during a particular pandemic situation in the whole world which confined people to their homes Therefore there was a rise in the use of distance working and learning e learning which led to a very quick adoption of technology in order to guarantee different approaches to fulfil the same or better outcomes and ensure that people are connected This book provides a better understanding about the importance of teams assessment and collaborative work as well as the use of collaboration tools and online assessment techniques supported by technology Consequently the book is aimed at all

institutions that seek new working environments namely higher education institutions companies and organizations sports teams and others Furthermore this book provides new approaches and systems to carry the knowledge and learning assessment The book gathers knowledge from several authors related to collaboration environments and tools as well as their insights on how technology can be applied to carry assessment processes The book seeks to provide knowledge on new technologies and different learning environments

Digest of Technical Papers, 1988 *Electric Circuits Fundamentals*
 Thomas L. Floyd, 2001 CD ROM contains CircuitMaker 6 2 Electronics Workbench files *Radiating Nonuniform Transmission-Line Systems and the Partial Element Equivalent Circuit Method* Prof. Dr. Juergen Nitsch, Dr. Frank Gronwald, Prof. Dr. Gunter Wollenberg, 2009-10-29 High frequencies of densely packed modern electronic equipment turn even the smallest piece of wire into a transmission line with signal retardation dispersion attenuation and distortion In electromagnetic environments with high power microwave or ultra wideband sources transmission lines pick up noise currents generated by external electromagnetic fields These are superimposed on essential signals the lines acting not only as receiving antennas but radiating parts of the signal energy into the environment This book is outstanding in its originality While many textbooks rephrase that which has been written before this book features an accessible introduction to the fundamentals of electromagnetics an explanation of the newest developments in transmission line theory featuring the transmission line super theory developed by the authors a unique exposition of the increasingly popular PEEC partial element equivalent circuit method including recent research results Both the Transmission Line Theory and the PEEC method are well suited to combine linear structures with circuit networks For engineers researchers and graduate students this text broadens insight into the basics of electrical engineering It provides a deeper understanding of Maxwellian circuit like representations of multi conductor transmission lines justifies future research in this field

Digital Electronics Roger L. Tokheim, 1999 This text covers updated contents such as optoisolators stepper motors electronic simulation software digital capacitance meters optical encoding LEDs logic probes and arithmetic logic units

Schematic Capture with Multisim 7 Marc E. Herniter, 2004-07 Using step by step screen captures this in depth manual provides self paced learning in an easy to use format It shows learners how to use the Multisim 7 circuit simulation program from Electronics Workbench The book focuses on a wide range of circuits and features a collection of examples that show how to create a circuit how to run different analyses and how to obtain the results from those analyses Chapter topics cover editing a basic schematic the postprocessor and the grapher DC measurements DC sweep magnitude and phase simulations time domain analyses and digital simulations For electrical engineers electronics engineers circuit simulation specialists computer engineers power electronics analog electronics and project managers

Schematic Capture with MicroSim PSpice Marc E. Herniter, 1996 This book provides comprehensive coverage of the current knowledge on the most innovative systematic and multidisciplinary approaches to the treatment of patients with cancer Each chapter provides a description of a specific

method for cancer management **Proceedings of the Twentieth Midwest Symposium on Circuits and Systems** K. S. Chao, Richard Saeks, 1977 IEEE International Conference on Computer Aided Design IEEE International Conference on Computer-Aided Design, 1987-11 **1978 IEEE International Symposium on Circuits and Systems** ,1978

Electronics for Computer Technology David Terrell, 2003 New from Delmar Learning Electronics for Computer Technology is perfect for today's career minded students as well as anyone with a keen interest in troubleshooting computer devices components and electrical circuits The first chapter introduces system level topics including representative systems system notations functional hierarchies system connectivity and system level troubleshooting In subsequent chapters direct references are made to system applications in order to put each topic in the context of an overall system Some software programming topics are addressed yet emphasis throughout the book is on hardware including all of the physical parts of the computer plus various electronic components within the computer Electronic devices are also discussed along with an overview of digital electronics computers and telecommunications Readers will learn to apply system level troubleshooting techniques to localize the detailed troubleshooting effort Benefits new system level thinking and troubleshooting skills may be used to open doors to employment or as preparation for advanced study of modern industrial electronics robotics or other industrial control systems System Perspective features appear at strategic points illustrating how a device or circuit being discussed is actually used in a practical functional system such as a computer Circuit Exploration exercises are included in every chapter providing opportunities to gain hands on troubleshooting experience in a lab setting or circuit simulation environment step by step calculator sequences are provided whenever a new type of calculation is introduced minimizing the learning curve for novices CD includes pre created MultiSIM circuits and Textbook Edition of MultiSIM the behavior of components is discussed and explained in terms of Ohm's Law Kirchhoff's Law and basic circuit principles wherever practical making this book ideal for beginners numerical circ **Schematic Capture with PSpice** Marc E. Herniter, 1994 **IEEE WESCANEX 93** Institute of Electrical and Electronics Engineers, 1993 Supercomputer '92 Hans-Werner Meuer, 1992-06-22 SUPERCOMPUTER 92 Anwendungen Architekturen Trends enth lt alle Vortr ge des f hrenden Seminars ber dieses Fachgebiet im deutschsprachigen Raum Der Band ist f r Supercomputer Anwender Betreiber und Hersteller sowie f r Entscheidungstr ger und Planer im Bereich der Informationsverarbeitung ein untentbehrliches Hilfsmittel um in diesem unerh rt innovativen Gebiet Schritt halten zu k nnen Er versetzt dar ber hinaus Informatiker aus Hochschulen und Forschungsinstituten in die Lage existierende Probleme in der Supercomputer Praxis besser verstehen und einordnen zu k nnen

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