

Experiment 1

Design and simulation of circuits with Multisim

OBJECTIVES

After this experiment, you will be able to:

- ∞ Build and analyse circuits using Multisim's test measurement facilities.

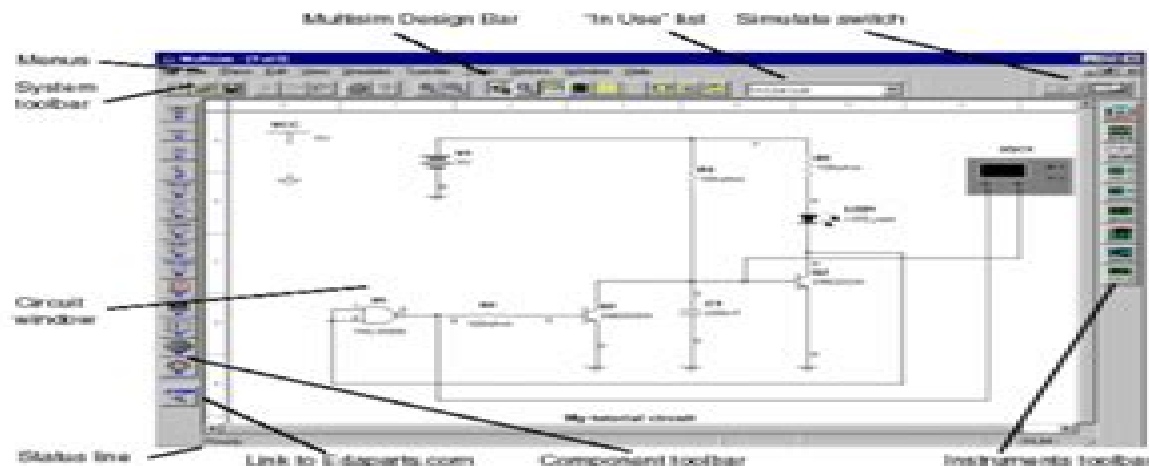
MATERIALS NEEDED

Multisim simulation and capture software.

SUMMARY

Multisim 7 is a popular electronic design software from Electronics Workbench. It is a design tool that offers a large component database, schematic entry, full analog/digital SPICE simulation, VHDL/Verilog design entry/simulation, FPGA/CPLD synthesis, RF capabilities, postprocessing features and seamless transfer to PCB layout packages such as Ultiboard, also from Electronics Workbench. It offers a single, easy-to-use graphical interface for all your design and analysis needs as shown in the following figure.

Multisim's user interface consists of the following basic elements:



Analog Electronic Circuits Lab Manual Using Multisim

A. J. Peyton, Vincent Walsh



Analog Electronic Circuits Lab Manual Using Multisim:

Analog Electronic Circuits Laboratory Manual Farzin Asadi, 2023-04-06 This is a book for a lab course meant to accompany or follow any standard course in electronic circuit analysis. It has been written for sophomore or junior electrical and computer engineering students either concurrently with their electronic circuit analysis class or following that class. This book is appropriate for non-majors such as students in other branches of engineering and in physics for which electronic circuits is a required course or elective and for whom a working knowledge of electronic circuits is desirable. This book has the following objectives: 1 To support, verify and supplement the theory to show the relations and differences between theory and practice; 2 To teach measurement techniques; 3 To convince students that what they are taught in their lecture classes is real and useful; 4 To help make students tinkers and make them used to asking what-if questions. **Experiments in Basic Circuits** David M. Buchla, 2007 **Computer Simulated Experiments for Digital Electronics Using Electronics Workbench Multisim** Richard H. Berube, 2004-09 This unique and innovative laboratory manual helps users learn and understand circuit analysis concepts by using Electronics Workbench software to simulate actual laboratory experiments on a computer. Learners work with circuits drawn on the computer screen and with simulated instruments that act like actual laboratory instruments. Circuits can be modified easily with on-screen editing and analysis results provide fast, accurate feedback. Hands-on in approach throughout in both interactive experiments and a series of questions about the results of each experiment, it is more cost-effective, safer and more thorough and efficient than using hardwired experiments. This For use with any DC AC text Electronics Fundamentals Thomas L. Floyd, 2007 CD ROM contains Multisim circuits including Multisim 2001 Multisim 7 and Multisim 8 Companion web site available Electronic Design, 2002 Forthcoming Books Rose Arny, 2002-02 **Инженерные и научные приложения на базе технологий NI NIDays - 2015** Сборник статей, 2022-01-29 **Aerospace America**, 2000 *Schematic Capture with Electronics Workbench Multisim* Marc E. Herniter, 2003-05 The first book on the market that teaches how to use the Electronics Workbench MultiSIM software, this most in-depth manual contains step-by-step screen captures that show how to create a circuit, how to run different analyses and how to obtain the results from those analyses, allowing the user to self-teach. It contains topics that will be useful throughout the user's career, making it an invaluable reference work. It features simulations of the same circuits using both the MultiSIM Virtual Lab and SPICE analyses to show users the connection between circuit operation, lab measurements and SPICE simulation results. An invaluable handbook and reference guide for electrical engineers, electronics engineers, circuit simulation specialists, computer engineers, power electronics employees, analog electronics employees and project managers. **LABORATORY EXPERIMENTS AND PSPICE SIMULATIONS IN ANALOG ELECTRONICS** MAHESHWARI, L. K., ANAND, M. M. S., 2006-01-01 This laboratory manual for students of Electronics, Electrical Instrumentation, Communication and Computer engineering disciplines has been prepared in the form of a standalone text offering the

necessary theory and circuit diagrams with each experiment Procedures for setting up the circuits and measuring and evaluating their performance are designed to support the material of the authors book Analog Electronics also published by PHI Learning There are twenty five experiments The experiments cover the basic transistor circuits the linear op amp circuits the active filters the non linear op amp circuits the signal generators the voltage regulators the power amplifiers the high frequency amplifiers and the data converters In addition to the hands on experiments using traditional test equipment and components this manual describes the simulation of circuits using PSPICE as well For PSPICE simulation any available standard SPICE software may be used including the latest version OrCAD V10 Demo software This feature allows the instructor to adopt a single laboratory manual for both types of experiments

Introduction to Analog and Digital Circuits Lab Manual Brian DEAN,2018-08-13

Analog and Mixed-Signal Electronics Karl Stephan,2015-02-25 A practical guide to analog and mixed signal electronics with an emphasis on design problems and applications This book provides an in depth coverage of essential analog and mixed signal topics such as power amplifiers active filters noise and dynamic range analog to digital and digital to analog conversion techniques phase locked loops and switching power supplies Readers will learn the basics of linear systems types of nonlinearities and their effects op amp circuits the high gain analog filter amplifier and signal generation The author uses system design examples to motivate theoretical explanations and covers system level topics not found in most textbooks Provides references for further study and problems at the end of each chapter Includes an appendix describing test equipment useful for analog and mixed signal work Examines the basics of linear systems types of nonlinearities and their effects op amp circuits the high gain analog filter amplifier and signal generation Comprehensive and detailed Analog and Mixed Signal Electronics is a great introduction to analog and mixed signal electronics for EE undergraduates advanced electronics students and for those involved in computer engineering biomedical engineering computer science and physics

Analog Electronics with Op-amps A. J. Peyton,Vincent Walsh,1993-08-12 A reference volume of analog electronic circuits based on the op amp containing practical detail and technical advice

Analog Electronic Circuits and Systems Gary E. Ford,Carl M. Arft,2006-06-05

ANALOG ELECTRONICS A. KANDASWAMY,ANDRÉ PITTET,2009-09-01 The recent growth of industrial automation as well as wireless communication has made the Analog Electronics course even more relevant in today s undergraduate programmes This well written text offers a comprehensive introduction to the concepts of circuit analysis electronic devices and analog integrated circuits The primary aim of this textbook is to raise the analytical skills of students required for the analysis and design of analog electronic circuits This book exposes the students to the current trends in Analog Electronics including the complete analysis and design of electronic circuit using Diodes BJTs FETs MOSFETs CMOS and operational amplifiers

Laboratory Manual (MultiSIM Emphasis) to Accompany Electronic Devices and Circuit Theory Robert L. Boylestad,Louis Nashelsky,2005-04

Analog Electronics with LabVIEW Kenneth L. Ashley,2002 Projects include many program files in LabView Mathcad

and SPICE which professionals would not have time to create on their own LabView allows engineers to turn their desktop into the instrument Analog circuit design is still vital in building communications devices the addition of LabView makes this process more precise and time efficient This book presents a study of analog electronics It consists of theory and closely coupled experiments which are based entirely on computer based data acquisition using LabView The topics included treat many of the relevant aspects of basic modern electronics

ANALOG ELECTRONICS MAHESHWARI, L. K., ANAND, M. M. S., 2009-01-13 This text offers a comprehensive introduction to a wide relevant array of topics in analog electronics It is intended for students pursuing courses in electrical electronics computer and related engineering disciplines Beginning with a review of linear circuit theory and basic electronic devices the text moves on to present a detailed practical understanding of many analog integrated circuits The most commonly used analog IC to build practical circuits is the operational amplifier or op amp Its characteristics basic configurations and applications in the linear and nonlinear circuits are explained Modern electronic systems employ signal generators analog filters voltage regulators power amplifiers high frequency amplifiers and data converters Commencing with the theory the design of these building blocks is thoroughly covered using integrated circuits The development of microelectronics technology has led to a parallel growth in the field of Micro electromechanical Systems MEMS and Nano electromechanical Systems NEMS The IC sensors for different energy forms with their applications in MEMS components are introduced in the concluding chapter Several computer based simulations of electronic circuits using PSPICE are presented in each chapter These examples together with an introduction to PSPICE in an Appendix provide a thorough coverage of this simulation tool that fully integrates with the material of each chapter The end of chapter problems allow students to test their comprehension of key concepts The answers to these problems are also given

Fundamentals of Analog Circuits Thomas L. Floyd, David Buchla, 2002 This comprehensive book meets the content requirements of most technical schools without hampering the reader with excessive detail A strong emphasis on troubleshooting will help prepare the reader for work in the industry This book introduces discrete device circuits and then delves more deeply into analog integrated circuits a topic that has more importance for today's technicians For technician level courses in analog circuits and those who are pursuing a career in electrical technology

Analog Circuit Design Bob Dobkin, Jim Williams, 2011-09-26 Analog circuit and system design today is more essential than ever before With the growth of digital systems wireless communications complex industrial and automotive systems designers are challenged to develop sophisticated analog solutions This comprehensive source book of circuit design solutions will aid systems designers with elegant and practical design techniques that focus on common circuit design challenges The book's in depth application examples provide insight into circuit design and application solutions that you can apply in today's demanding designs Covers the fundamentals of linear analog circuit and system design to guide engineers with their design challenges Based on the Application Notes of Linear Technology the foremost designer of high performance analog products readers will gain

practical insights into design techniques and practice Broad range of topics including power management tutorials switching regulator design linear regulator design data conversion signal conditioning and high frequency RF design Contributors include the leading lights in analog design Robert Dobkin Jim Williams and Carl Nelson among others

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