# PSPICE LAB MANUAL LAB CODE:EC 262

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BAPATLA ENGINEERING COLLEGE BAPATLA

# **Pspice Lab Manual For Electronics**

**WJ Hussar** 

# **Pspice Lab Manual For Electronics:**

LABORATORY EXPERIMENTS AND PSPICE SIMULATIONS IN ANALOG ELECTRONICS L. K. MAHESHWARI, M. S. ANAND, 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 PSpice for Circuit Theory and Electronic Devices Paul Tobin, 2007 PSpice for Circuit Theory and Electronic Devices is one of a series of five PSpice books and introduces the latest Cadence Orcad PSpice version 10 5 by simulating a range of DC and AC exercises It is aimed primarily at those wishing to get up to speed with this version but will be of use to high school students undergraduate students and of course lecturers Circuit theorems are applied to a range of circuits and the calculations by hand after analysis are then compared to the simulated results The Laplace transform and the s plane are used to analyze CR and LR circuits where transient signals are involved Here the Probe output graphs demonstrate what a great learning tool PSpice is by providing the reader with a visual verification of any theoretical calculations Series and parallel tuned resonant circuits are investigated where the difficult concepts of dynamic impedance and selectivity are best understood by sweeping different circuit parameters through a range of values Obtaining semiconductor device characteristics as a laboratory exercise has fallen out of favour of late but nevertheless is still a useful exercise for understanding or modelling semiconductor devices Inverting and non inverting operational amplifiers characteristics such as gain bandwidth are investigated and we will see the dependency of bandwidth on the gain using the performance analysis facility Power amplifiers are examined where PSpice Probe demonstrates very nicely the problems of cross over distortion and other problems associated with power transistors We examine power supplies and the problems of regulation ground bounce and power factor correction Lastly we look at MOSFET device characteristics and show how these devices are used to form basic CMOS logic gates such as NAND and NOR gates

<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 Manual for Electronics Martin Feldman, 2001-11 The emphasis is first on understanding the characteristics of basic circuits including resistors capacitors diodes and bipolar and field effect transistors. The readers then use this understanding to construct more complex circuits such as power supplies differential amplifiers tuned circuit amplifiers a transistor curve tracer and a digital voltmeter In addition readers are exposed to special topics of current interest such as the propagation and detection of signals through fiber optics the use of Van der Pauw patterns for precise linewidth measurements and high gain amplifiers based on active loads KEY TOPICS Chapter topics include Thevenin's Theorem Resistive Voltage Division Silicon Diodes Resistor Capacitor Circuits Half Wave Rectifiers DC Power Supplies Diode Applications Bipolar Transistors Field Effect Transistors Characterization of Op Amp Circuits Transistor Curve Tracer Introduction to PSPICE and AC Voltage Dividers Characterization and Design of Emitter and Source Followers Characterization and Design of an AC Variable Gain Amplifier Design of Test Circuits for BJT s and FET s and Design of FET Ring Oscillators Design and Characterization of Emitter Coupled Transistor Pairs Tuned Amplifier and Oscillator Design of Am Radio Frequency Transmitter and Receiver Design of Oscillators Using Op Amps Current Mirrors and Active Loads Sheet Resistance Design of Analog Fiber Optic Transmission System Digital Voltmeter **PSpice and Circuit Analysis** John L. Keown,1991 Laboratory Manual for Electronic Circuits - 1 Murat AKSOY, 2018-10-31 **The Electronics Handbook** Jerry C. Whitaker, 1996-12-23 The superb organization of The Electronics Handbook means that it is not only a comprehensive and fascinating reference but also a pleasure to use Some of these organizational features include **Electronic Devices and Circuit Theory Lab Manual** (Pspice Emphasis) Boylestad, Louis Nashelsky, Franz Monssen, 2005-04 Electronic Systems Maintenance Handbook Jerry C. Whitaker, 2017-12-19 The days of troubleshooting a piece of gear armed only with a scope voltmeter and a general idea of how the hardware works are gone forever As technology continues to drive equipment design forward maintenance difficulties will continue to increase and those responsible for maintaining this equipment will continue to struggle to keep up The Electronic Systems Maintenance Handbook Second Edition establishes a foundation for servicing operating and optimizing audio video computer and RF systems Beginning with an overview of reliability principles and properties a team of top experts describes the steps essential to ensuring high reliability and minimum downtime They examine heat

management issues grounding systems and all aspects of system test and measurement They even explore disaster planning and provide guidelines for keeping a facility running under extreme circumstances Today more than ever the reliability of a system can have a direct and immediate impact on the profitability of an operation Advocating a carefully planned systematic maintenance program the richly illustrated Electronic Systems Maintenance Handbook helps engineers and technicians meet the challenges inherent in modern electronic equipment and ensure top quality performance from each piece of hardware

Introduction to Modern Power Electronics Andrzej M. Trzynadlowski, 2010-03-15 This updated edition of this book provides comprehensive coverage of modern power electronics addressing all the latest trends and hot button issues from PWM rectifiers to renewable energy systems to electromagnetic interference It features an overview of advanced control methods used in today s power electronic converters numerous SPICE files of typical power conversion circuits and an Instructor's Manual with solutions to all problems An extensive body of examples exercises computer assignments and simulations make SPICE for Power Electronics and Electric Power Muhammad H. Rashid, 2017-12-19 Power electronics can be a difficult course for students to understand and for professors to teach Simplifying the process for both SPICE for Power Electronics and Electric Power Third Edition illustrates methods of integrating industry standard SPICE software for design verification and as a theoretical laboratory bench Helpful PSpice Software and Program Files Available for Download Based on the author Muhammad H Rashid's considerable experience merging design content and SPICE into a power electronics course this vastly improved and updated edition focuses on helping readers integrate the SPICE simulator with a minimum amount of time and effort Giving users a better understanding of the operation of a power electronics circuit the author explores the transient behavior of current and voltage waveforms for each and every circuit element at every stage The book also includes examples of all types of power converters as well as circuits with linear and nonlinear inductors New in this edition Student learning outcomes SLOs listed at the start of each chapter Changes to run on OrCAD version 9 2 Added VPRINT1 and IPRINT1 commands and examples Notes that identify important concepts Examples illustrating EVALUE GVALUE ETABLE GTABLE ELAPLACE GLAPLACE EFREQ and GFREQ Mathematical relations for expected outcomes where appropriate The Fourier series of the output voltages for rectifiers and inverters PSpice simulations of DC link inverters and AC voltage controllers with PWM control This book demonstrates techniques of executing power conversions and ensuring the quality of the output waveforms rather than the accurate modeling of power semiconductor devices This approach benefits students enabling them to compare classroom results obtained with simple switch models of devices In addition a new chapter covers multi level converters Assuming no prior knowledge of SPICE or PSpice simulation the text provides detailed step by step instructions on how to draw a schematic of a circuit execute simulations and view or plot the output results It also includes suggestions for laboratory experiments and design problems that can be used for student homework assignments **Elements of Power Electronics** Philip T. Krein, 2015 Elements of Power Electronics features a unifying

framework that includes the physical implications of circuit laws switching circuit analysis and the basis for converter operation and control It discusses dc dc ac dc dc ac and ac ac conversion tasks and principles of resonant converters and discontinuous converters. The text also addresses magnetic device design thermal management and drivers for power semiconductors control system aspects of converters and both small signal and geometric controls Models for real devices and components including capacitors inductors wire connections and power semiconductors are developed in depth while newly expanded examples show students how to use tools like Mathcad Matlab and Mathematica to aid in the analysis and The Illustrated Guide to PSpice Robert Lamey, 1995 Based design of conversion circuits Electronics World ,2004 on the latest version of the software DOS Version 6 this book introduces users to the popular PSpice circuit analysis software program Each feature of circuit analysis and each feature of the PSpice software is clearly presented and illustrated by an example putting electronics technicians and professional engineers on the fast track to increased productivity An introductory chapter on how to load and configure the PSpice program is also included for those who are new to network analysis or new to using computers Circuit Analysis Allan Robbins, Wilhelm C. Miller, 2000 The mathematical foundation and the practical application of circuit theory in this highly readable book will prove invaluable to students enrolled in electronics engineeringtechnology curriculum and professionals alike This one of a kind text provides comprehensive coverage of circuit analysis topics including fundamentals of DC and AC circuits methods of analysis capacitance inductance magnetism simple transients and computer methods Hundreds of step by step examples lead the user through the critical thinking processes required to solve problems Two popular computer simulation packages OrCAD PSpice Version 9 and Electronics Workbench are integrated throughout the book to support what if situations With the Online Companion users can access a web site that contains RealAudio sound clips that present more in depth discussions of the most difficult topics covered in each chapter Laboratory Manual for Introductory Circuit Analysis Robert L. Boylestad, Gabriel Kousourou, 2010 Schematic Capture with PSpice Marc E. Herniter, 1994 **Proceedings** American Society for Engineering Education. Conference, 1994 **Principles of Electric Circuits** Thomas L. Floyd, 2000 CD ROM includes 100 EWB circuits for the textbook s troubleshooting and analysis problems demonstration version of EWB verson 5 X software and a full student version of EWB verson 5 X available for purchase Preface **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

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