
BASIC ELECTRONICS

Laboratory Manual

Second Edition



Compiled by:

Engr. Junry A. Tito

Engr. Geenne Quimque

Engr. Beteliano S. Villalas Jr.

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Laboratory Manual for Introductory Electronics Experiments L. K. Maheshwari, M. M. S. Anand, 1979 Electronic Devices and Circuits Laboratory Manual Srinivasa Murthy, 2015-10-03 This is a Electronic Devices and Circuits laboratory Manual meant for II year Electronics Electrical engineering students All the circuits in this book are tested *Lab Manual for Meade's Foundations of Electronics, 5th* Russell Meade, Robert Diffenderfer, 2006-05 The Lab Manual for FOUNDATIONS OF ELECTRONICS CIRCUITS DEVICES 5th Edition is a valuable tool designed to enhance your classroom experience Lab activities objectives materials lists step by step procedures illustrations review questions and more are all included Basic Electronics, 1976 **Foundations of Electronics** Russell L. Meade, Robert Diffenderfer, 2002-09 The Lab Manual for FOUNDATIONS OF ELECTRONICS CIRCUITS DEVICES 4th Edition is a valuable tool designed to enhance your classroom experience Lab activities objectives materials lists step by step procedures illustrations review questions and more are all included **Lab 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 **ELECTRONICS LAB MANUAL Volume I, FIFTH EDITION** 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

Laboratory Manual for Electronic Devices and Circuits David A. Bell, 2001 This lab manual accompanies Electronic Devices and Circuits 4 e **Lab Manual for Electronic Devices, Global Edition** THOMAS L. FLOYD, 2018-06-19 This laboratory manual is carefully coordinated to the text Electronic Devices Tenth edition Global edition by Thomas L Floyd The seventeen experiments correspond to the chapters in the text except the first experiment references Chapters 1 and the first part of Chapter 2 All of the experiments are subdivided into two or three Parts With one exception Experiment 12 B the Parts for the all experiments are completely independent of each other The instructor can assign any or all Parts of these experiments and in any order This format provides flexibility depending on the schedule laboratory time available and course objectives In addition experiments 12 through 16 provide two options for experiments These five experiments are divided into two major sections identified as A or B The A experiments continue with the format of previous experiments they are constructed with discrete components on standard protoboards as used in most electronic teaching laboratories The A experiments can be assigned in programs where traditional devices are emphasized Each B experiment has a similar format to the corresponding A experiment but uses a programmable Analog Signal Processor ASP that is controlled by free Computer Aided Design CAD software from the Anadigm company www.anadigm.com These experiments support the Programmable Analog Design feature in the textbook The B experiments are also subdivided into independent Parts but Experiment 12 B Part 1 is a software tutorial and should be performed before any other B experiments This is an excellent way to introduce the ASP technology because no other hardware is required other than a computer running the downloaded software In addition to Experiment 12 B the first 13 steps of Experiment 15 B Part 2 are also tutorial in nature for the AnadigmFilter program This is an amazing active filter design tool that is easy to learn and is included with the AnadigmDesigner2 AD2 CAD software The ASP is part of a Programmable Analog Module PAM circuit board from the Servenger company www.servenger.com that interfaces to a personal computer The PAM is controlled by the AD2 CAD software from the Anadigm company website Except for Experiment 12 B Part 1 it is assumed that the PAM is connected to the PC and AnadigmDesigner2 is running Experiment 16 B Part 3 also requires a spreadsheet program such as Microsoft Excel The PAM is described in detail in the Quick Start Guide Appendix B Instructors may choose to mix A and B experiments with no loss in continuity depending on course objectives and time We recommend that Experiment 12 B Part 1 be assigned if you want students to have an introduction to the ASP without requiring a hardware purchase A text feature is the Device Application DA at the end of most chapters All of the DAs have a related laboratory exercise using a similar circuit that is sometimes simplified to make laboratory time as efficient as possible The same text icon identifies the related DA exercise in the lab manual One issue is the trend of industry to smaller surface

mount devices which are very difficult to work with and are not practical for most lab work. For example, almost all varactors are supplied as surface mount devices now. In reviewing each experiment, we have found components that can illustrate the device function with a traditional one. The traditional through-hole MV2109 varactor is listed as obsolete but will be available for the foreseeable future from Electronix Express www.elexp.com so it is called out in Experiment 3. All components are available from Electronix Express www.elexp.com as a kit of parts; see list in Appendix A. The format for each experiment has not changed from the last edition and is as follows:

- Introduction:** A brief discussion about the experiment and comments about each of the independent Parts that follow.
- Reading Assignment:** Reading assignment in the Floyd text related to the experiment.
- Key Objectives:** A statement specific to each Part of the experiment of what the student should be able to do.
- Components Needed:** A list of components and small items required for each Part but not including the equipment found at a typical lab station.
- Particular care:** Has been exercised to select materials that are readily available and reusable, keeping cost at a minimum.
- Parts:** There are two or three independent parts to each experiment.
- Needed tables, graphs, and figures:** Are positioned close to the first referenced location to avoid confusion.
- Step numbering:** Starts fresh with each Part but figures and tables are numbered sequentially for the entire experiment to avoid multiple figures with the same number.
- Conclusion:** At the end of each Part, space is provided for a written conclusion.
- Questions:** Each Part includes several questions that require the student to draw upon the laboratory work and check his or her understanding of the concepts.
- Troubleshooting questions:** Are frequently presented.
- Multisim Simulation:** At the end of each experiment except 1, one or more circuits are simulated in a Multisim computer simulation.
- New Multisim troubleshooting problems:** Have been added to this edition.
- Multisim troubleshooting files:** Are identified with the suffix f1, f2, etc. in the file name, standing for fault1, fault2, etc.
- Other files with nf as the suffix:** Include demonstrations or practice using instruments such as the Bode Plotter and the Spectrum Analyzer.
- A special icon:** Is shown with all figures that are related to the Multisim simulation.
- Multisim files:** Are found on the website www.pearsonglobal.com.
- Floyd Microsoft PowerPoint slides:** Are available at no cost to instructors for all experiments. The slides reinforce the experiments with troubleshooting questions and a related problem and are available on the instructor's resource site.
- Each laboratory station:** Should contain a dual variable regulated power supply, a function generator, a multimeter, and a dual channel oscilloscope.
- A list of all required materials:** Is given in Appendix A along with information on acquiring the PAM.

As mentioned, components are also available as a kit from Electronix Express; the kit number is 32DBEDFL10.

Introduction to Electronics Harry Alex Romanowitz, Russell E. Puckett, 1969 **Basic Electronics** Paul B. Zbar, Albert Paul Malvino, Michael A. Miller, 1990 **Laboratory Manual for Electronics via Waveform Analysis** Edwin C. Craig, 2012-12-06

To the Instructor: The purpose of this laboratory manual is not just to help students to set up electronic circuits that function as they should. The important thing is the electronic concepts that the student learns in the process of setting up and studying these circuits. Quite often a student learns more electronics when he has to trouble shoot a circuit.

than when the circuit performs as it should when first built It is unlikely that any students would be able to complete all of these experiments in one semester The author believes that all students should have laboratory experiences with power supplies amplifiers oscillators and integrated circuits Additionallabomtory experiments should be de termined by the instructor Therefore you can choose those that you want done Some students are more efficient in the labomtory than others Therefore some would be able to complete more exper iments in a semester than others Also many of these experiments cannot be completed in one two hour laboratory period If space is available the circuits could be left intact from one period to the next Or you might want to select steps in an experiment that you want to delete Neither the val ues of the components or the magnitudes of the power supplies as given in the instructions are critical Therefore you could in most cases change them if the ones recommended are not available Basic Electronics Paul Bernard Zbar,1976 Electronics Technology Dale R. Patrick,1994 **Basic Electronics** Paul B. Zbar,1976 **Introduction to Electronics Lab Manual** Solari,2005-08-01 **Digital Electronics Lab Manual** Abraham Michelen,2000 Accompanying CD ROM includes Electronics Workbench circuits for the experiments in the manual **Foundations of Electronics and Circuits and Devices** Russell L. Meade,1994 **Industrial Electronics** Paul B. Zbar,Peter Orne,1972-01-01 *Fundamentals of Digital Electronics* George B. Rutkowski,Jerome E. Oleksy,1985

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Table of Contents Electronics Lab Manual For Wbut

1. Understanding the eBook Electronics Lab Manual For Wbut
 - The Rise of Digital Reading Electronics Lab Manual For Wbut
 - Advantages of eBooks Over Traditional Books
2. Identifying Electronics Lab Manual For Wbut
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Electronics Lab Manual For Wbut
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electronics Lab Manual For Wbut

- Personalized Recommendations
- Electronics Lab Manual For Wbut User Reviews and Ratings
- Electronics Lab Manual For Wbut and Bestseller Lists
- 5. Accessing Electronics Lab Manual For Wbut Free and Paid eBooks
 - Electronics Lab Manual For Wbut Public Domain eBooks
 - Electronics Lab Manual For Wbut eBook Subscription Services
 - Electronics Lab Manual For Wbut Budget-Friendly Options
- 6. Navigating Electronics Lab Manual For Wbut eBook Formats
 - ePub, PDF, MOBI, and More
 - Electronics Lab Manual For Wbut Compatibility with Devices
 - Electronics Lab Manual For Wbut Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electronics Lab Manual For Wbut
 - Highlighting and Note-Taking Electronics Lab Manual For Wbut
 - Interactive Elements Electronics Lab Manual For Wbut
- 8. Staying Engaged with Electronics Lab Manual For Wbut
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electronics Lab Manual For Wbut
- 9. Balancing eBooks and Physical Books Electronics Lab Manual For Wbut
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electronics Lab Manual For Wbut
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Electronics Lab Manual For Wbut
 - Setting Reading Goals Electronics Lab Manual For Wbut
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electronics Lab Manual For Wbut

- Fact-Checking eBook Content of Electronics Lab Manual For Wbut
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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