

# ***Laboratory Manual***

## **Electronic Devices & Circuits**

Manual made by  
JNTU World Team

# Electronic Devices And Circuits Lab Manual

**Robert T. Paynter, W. R. Miller, C. D.  
Menezes**



## **Electronic Devices And Circuits Lab Manual:**

Laboratory Manual for Electronic Devices and Circuits David A. Bell,2001 This lab manual accompanies Electronic Devices and Circuits 4 e     **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 ar tested     Fundamentals of Electronic Devices and Circuits Lab Manual David Bell,2009-11-22 The

laboratory investigations in this manual are designed to demonstrate the theoretical principles set out in the book Fundamentals of Electronic Devices and Circuits 5 e A total of 43 laboratory investigations are offered involving the construction and testing of the circuits discussed in the textbook Each investigation can normally be completed within a two hour period The procedures contain some references to the textbook however all necessary circuit and connection diagrams are provided in the manual so that investigations can also be preformed without the textbook     *Introductory Electronic*

*Devices and Circuits* Robert T. Paynter,W. R. Miller,C. D. Menezes,1989     Laboratory Manual (MultiSIM Emphasis) to Accompany Electronic Devices and Circuit Theory Robert L. Boylestad,Louis Nashelsky,2005-04     Lab Manual to Accompany Introductory Electronic Devices and Circuits ,2000     **Laboratory Manual For Electronic Devices And**

**Circuits 4Th Ed.** Bell,     Introductory Electronic Devices and Circuits Robert T. Paynter,2003 For courses in Electronic Devices or Semiconductors This text makes comprehension of material a top priority and encourages students to be active participants in the learning process The electron flow and conventional flow versions of this text provide a readable and thorough approach to electronic devices and circuits and support discussions with an abundance of learning aids to motivate and assist students at every turn The sixth edition of this well established text features significant art improvements throughout added EWB simulation problems and a redesigned lab manual     **Experimental Data for Electronic Devices**

**and Circuits Laboratory Manual** David A. Bell,2006-08-01 This book accompanies Electronic Devices and Circuits 4 e

Electronic Devices and Circuits Khosrow Ghadiri,2006-01-12 Electronic devices and circuit s laboratory manual for junior level college electronic design course The manual consist of ten experiments of multiple parts and six chapters of descriptions of the laboratory equipment such as dual display multimeter triple output DC power oscilloscope and function generator The manual also contains ten appendices of devices schematics and lab procedures This laboratory manual is designed to accompany one semester course or quarter class in electronic devices and circuit Each experiment in this manual should take one week to perform Normally students perform the experiments in groups of two Ideally a student more comfortable with the equipment used in this laboratory and especially the general purpose oscilloscope will be appointed group leader The function of the group leader is to supervise the activities of the group and become its spokesperson in its dealings with the laboratory instructor In those instances where the group leader has an extensive technical background he she should let the less experienced partner do most of the routine work limiting his her activities to checking and trouble

shooting circuits as well as answering questions that may arise during the course of the experiment All parts of each experiment in this manual that students are to perform must be simulated with PSpice The simulations check the validity of the experimental measurements through theoretical means Normally a larger than 10% discrepancy between experimental and simulated results is an indication of either erroneous experimental techniques or erroneous entry of the experimental results into the computer In either case appropriate corrective actions are suggested During the first week of Experiment 1 the various resistors capacitors diodes transistors and other devices needed to perform all the experiments in this manual should be provided by the laboratory instructor Additionally students should include with their kits a number of short pieces of 22 AWG wire these are to be used to wire their circuits in conjunction with their experimenter circuit board Note that each student should possess his her own circuit board which must be brought to the laboratory each time it meets

**Electronic Circuits** Gabriel Oltean,Mihaela-Laura Gordan,Costin Miron (inginer.),2004 Electronic Devices and Circuit Theory Robert L. Boylestad,Louis Nashelsky,2006 Highly accurate and thoroughly updated this text has set the standard in electronic devices and circuit theory for over 25 years Boylestad and Nashelsky offer students a complete and comprehensive survey focusing on all the essentials they will need to succeed on the job This very readable presentation is supported by strong pedagogy and content that is ideal for new students of this rapidly changing field Its colorful student friendly layout boasts a large number of stunning photographs A broad range of ancillary materials is available for instructor support Boldfaced notations Isolates important conclusions and statements by highlighting them in the text Chapter ending lists of definitions and equations Provides students with a quick reference for study and assignments A more coherent organization Covers BJT and FET amplifiers in a smooth flow after the introduction to the device to the dc and ac analysis *Laboratory Manual to Accompany Electronic Devices and Circuit Theory* Robert L. Boylestad,Franz Monssen,Louis Nashelsky,2012 This is a student supplement associated with Electronic Devices and Circuit Theory 11 e Robert L Boylestad Queensborough Community College Louis Nashelsky Queensborough Community College ISBN 0132622262 **Lab Manual [for] Electronic Devices and Circuit Theory, Fifth Edition** Robert L. Boylestad,Louis Nashelsky,Franz Monssen,1992 **Laboratory manual for electronic devices and circuits** ,2004 Electronic Devices Gabriel Oltean,Mihaela-Laura Gordan,Costin Miron (inginer.),2004 *Laboratory Manual for Introductory Electronics Experiments* L. K. Maheshwari,M. M. S. Anand,1979 *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 **Lab Manual to Accompany Electronic Devices and Circuit Theory** Robert L. Boylestad,Louis Nashelsky,1987 **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](http://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](http://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.eleyp.com](http://www.eleyp.com) so it is called out in Experiment 3 All components are available from Electronix Express [www.eleyp.com](http://www.eleyp.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 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 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 A 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.pearsonglobaledition.com](http://www.pearsonglobaledition.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

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## **Table of Contents Electronic Devices And Circuits Lab Manual**

1. Understanding the eBook Electronic Devices And Circuits Lab Manual
  - The Rise of Digital Reading Electronic Devices And Circuits Lab Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Electronic Devices And Circuits Lab Manual
  - 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 Electronic Devices And Circuits Lab Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Electronic Devices And Circuits Lab Manual
  - Personalized Recommendations
  - Electronic Devices And Circuits Lab Manual User Reviews and Ratings
  - Electronic Devices And Circuits Lab Manual and Bestseller Lists
5. Accessing Electronic Devices And Circuits Lab Manual Free and Paid eBooks
  - Electronic Devices And Circuits Lab Manual Public Domain eBooks
  - Electronic Devices And Circuits Lab Manual eBook Subscription Services
  - Electronic Devices And Circuits Lab Manual Budget-Friendly Options
6. Navigating Electronic Devices And Circuits Lab Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Electronic Devices And Circuits Lab Manual Compatibility with Devices
  - Electronic Devices And Circuits Lab Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Electronic Devices And Circuits Lab Manual
  - Highlighting and Note-Taking Electronic Devices And Circuits Lab Manual
  - Interactive Elements Electronic Devices And Circuits Lab Manual
8. Staying Engaged with Electronic Devices And Circuits Lab Manual

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Electronic Devices And Circuits Lab Manual
9. Balancing eBooks and Physical Books Electronic Devices And Circuits Lab Manual
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Electronic Devices And Circuits Lab Manual
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Electronic Devices And Circuits Lab Manual
- Setting Reading Goals Electronic Devices And Circuits Lab Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electronic Devices And Circuits Lab Manual
- Fact-Checking eBook Content of Electronic Devices And Circuits Lab Manual
  - 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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which organ system appears to be different from that of the female frog 3

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sexing your frog place a frog on a dissection tray to determine the frogs sex look at the hand digits or fingers on its forelegs

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web 3 name the 3 lobes of the liver right left anterior left posterior f4 the organ that is the first major site of chemical

digestion stomach 5 eggs sperm urine and wastes all empty into this structure cloaca 6 the small intestine leads to the large intestine 7

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web anatomy of the frog s mouth pry the frog s mouth open and use scissors to cut the angles of the frog s jaws open cut deeply so that the frog s mouth opens wide enough to view the structures inside 1 locate the tongue play with the tongue does it attach to the front or the back of the mouth you may remove the tongue

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web 1 place the frog in the dissecting pan ventral side up 2 use scissors to lift the abdominal muscles away from the body cavity cut along the midline of the body to the forelimbs 3 make transverse horizontal cuts near the arms and legs 4

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web use a scalpel forceps and pins to dissect realistic male and female frogs organs can be removed and placed into organ system diagrams once the dissections are complete the frog organ systems can be compared zooming rotating and panning tools are available to examine the frog from any angle full lesson info

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web the links on this page are to help you study the locations and appearance of the structures most of the links are to images and virtual dissections of the frog locate all of your frog anatomy worksheets complete frog dissection guide external anatomy of frog frog dissection digestive urinary reproductive respiratory circulatory

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web lesson plan frog dissection background frogs are vertebrates in a class called amphibians frogs have similar body systems like the digestive and circulatory systems to other vertebrates like humans making them a nice specimen for comparative anatomy along with toads they make up the largest group of amphibians

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web laboratory no 6 frog virtual dissection introduction frogs belong to the class amphibia amphibians have adaptations for living in terrestrial as well as aquatic environments frogs are among the most commonly studied organisms in biology although many differences exist between humans and frogs the basic body plans are similar

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web in this investigation you will observe the external features of a preserved frog and identify parts of its external anatomy you will also dissect the preserved frog to observe its internal anatomy and make comparisons to human anatomy pre lab questions read the entire investigation then answer the following questions 1

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web 1 place the frog in the dissecting pan ventral side up examine the hind and forelegs the hind legs are strong and muscular for jumping and swimming the forelegs provide balance and cushion the frog when it lands after jumping notice the toes on each 2 locate the large bulging eyes the frog has 3 eyelids

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web complete student instructions for the dissection of the frog starting with the external anatomy and the anatomy of the mouth student guide requires them to label images and answer questions students continue with the internal anatomy where they open the abdominal cavity to reveal the major organs

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web in the frog dissection gizmo you will complete a virtual dissection of a female and male frog first select the female frog then click on the rotate button with the rotate button selected click and drag on the frog to rotate it observe what the female frog looks like now select show male at the bottom left to switch to the male frog

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web description standards 1 reviews 3 q a 1 more from biologycorner description this activity was created as a virtual version of the frog dissection students use slides with descriptions and images to learn about the organ systems of the frog

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web and answer questions in italics during the lab and answer all others later part a introduction 1 what class does the frog belong to 2 why does a frog belong to that class 3 why are amphibians considered to be a unique evolutionary group part b external anatomy orientation 4 locate the following orientations on your frog a

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