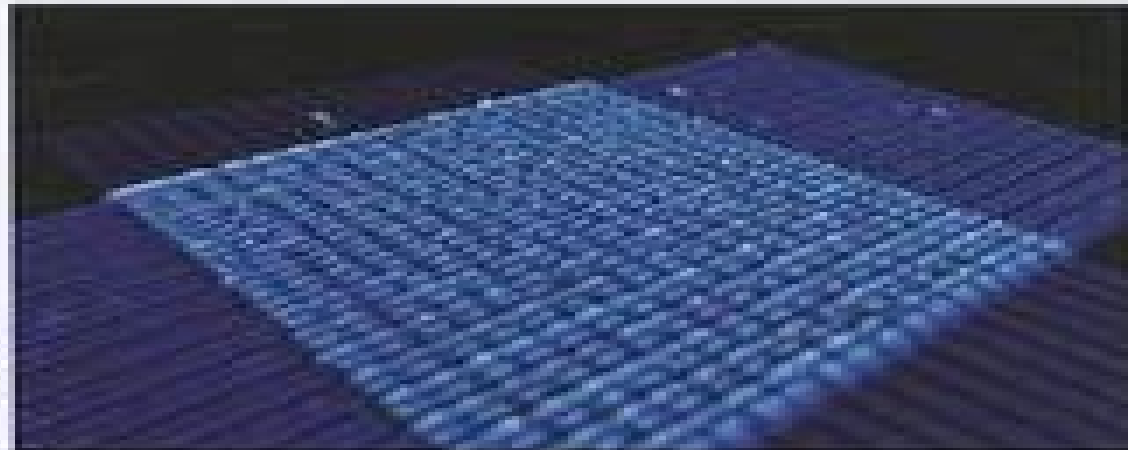


Laboratory Manual to accompany

electronic devices and circuit theory

ROBERT L. BOYLESTAD • LOUIS NASHELSKY



Robert L. Boylestad
Louis Nashelsky • Franz J. Monssen

Experiments In Electronic Devices A Laboratory Manual To Accompany Electronic Devices

Goody



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Experiments in Electronic Devices, a Laboratory Manual to Accompany Electronic Devices and Electronic Devices Electron Flow Howard M. Berlin, 2002 **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 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.pearsonglobalaedition.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

Experiments in Electronic Devices Howard M.

Berlin,1988 Experiments in Electronic Devices Berlin,Howard M. Berlin,1991-09 Experiments in Electronic Devices Howard M. Berlin,1999 Forty labs correlated to point text Electronics Devices 5 Ed by Floyd but suitable as a stand alone lab manual for electronic devices courses

Electronic Devices Thomas L. Floyd,1992 The third edition of this text brings with it new features including new system applications sections in every chapter a full colour system application insert new end of chapter problems as well as troubleshooting coverage

From discrete components to linear integrated circuits this text takes a strong systems approach that identifies the circuits and components within a system and helps students see how the

circuit relates to the overall system function Electronic Devices and Circuits Theodore F. Bogart,1990 Very Good No Highlights or Markup all pages are intact **Experiments in Electric Circuits** Brian Stanley,1989 **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 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1976 Experiments in Electronic Devices Howard M. Berlin,1996 **Digital Experiments** David Buchla,1990 *Electronic Devices* John Henderson,Senior Lecturer in Paediatric Intensive Care John Henderson, M.S,1991-02 **Electronic Devices and Circuits Using MICRO-CAP II** Richard H. Berube,1991 *Digital Experiments Emphasizing Troubleshooting* Jerry V. Cox,1990 **Essential Mathematics for Electronics Technicians** Fred Monaco,1991 Core text for the introductory mathematics course for beginning electronics technology students **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 A Handbook of English for Technical Students Anne A. Panares,1992 *Electronic Project Design and Fabrication* Ronald A. Reis,1992 **Program Interfacing 8086 8088**

Goody,1992

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