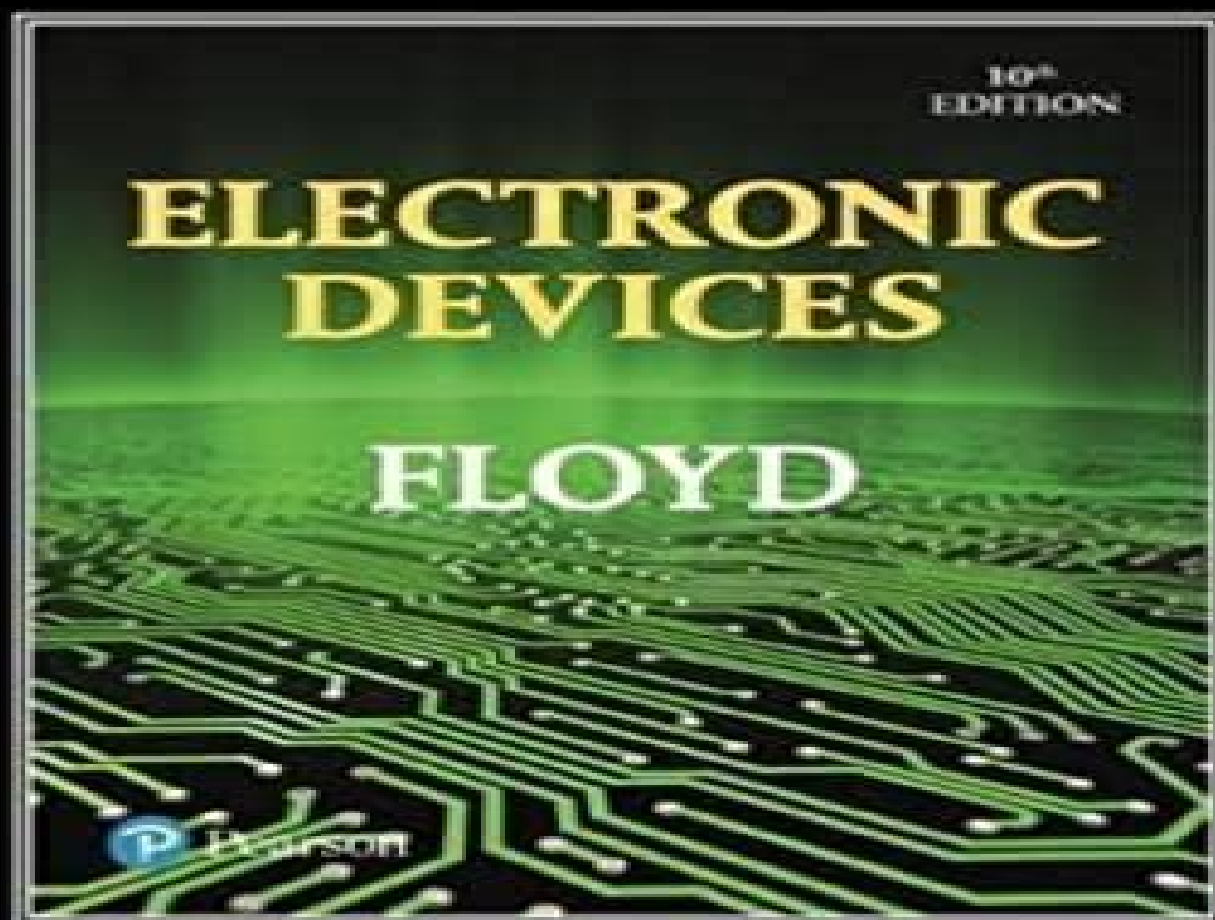


Laboratory Exercises for



David M. Buchla • Steven Wetterling

Laboratory Exercises For Electronic Devices

Srinivasa Murthy



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Laboratory Exercises for Electronic Devices - Buchla David M. Buchla, 2004-08 **Laboratory Exercises for Electronic Devices: A Laboratory Manual to Accompany Electronic Devices by Thomas L. Floyd** David M. Buchla, Steve Wetterling, 2007-07 Student supplement for Electronic Devices Electron Flow Version 8 e Thomas L Floyd ISBN 10 0132429357 ISBN 13 9780132429351 **Laboratory Exercises for Electronic Devices, and Electronic Devices** David Buchla, *Laboratory Exercises for Electronic Devices* Thomas L. Floyd, Steve Wetterling, 2017-03-21 *Laboratory Exercises for Electronic Devices, Conventional Flow Version, Sixth Edition and Electronic Devices, Electron Flow Version, Fourth Edition* David Buchla, 2002 **Electronic Devices Electron Flow Version Value Package** Thomas L. Floyd, 2008-03 **Electronic Devices (Conventional Current Version) + Laboratory Exercises for Electronic Devices Pkg** Thomas L. Floyd, 2011-01-01 **Laboratory Exercises for Electronic Devices** David M. Buchla, 2012 **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.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

Electronic Devices Thomas L. Floyd, 2002 This book provides comprehensive up to date coverage of electronic devices and circuits in a format that is clearly written and superbly illustrated *PSpice for Circuit Theory and Electronic Devices* Paul Tobin, 2022-05-31 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.

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.

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Laboratory Exercises in Oceanography Bernard W. Pipkin, Donn S. Gorsline, Richard E. Casey, 2001 This is the current edition of the lab manual used by tens of thousands of students over the past two decades As always the manual includes exercises for the major disciplines within oceanography biology chemistry geology and physics and incorporates real data from actual experiments The new edition adds four new labs thorough updating throughout new objectives sections and an 8 page color insert **The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services** ,1984

Guide to the Evaluation of Educational Experiences in the Armed Services American Council on Education, 1978

Essential Mathematics for Electronics Technicians Fred Monaco, 1991 Core text for the introductory mathematics course for beginning electronics technology students *Digital Electronics* James W. Bignell, Donovan, 2000 This basic text for digital electronics offers complete practical coverage of the latest digital principles techniques and hardware Written in a concise easy to read style it includes everything from basic digital concepts to an introduction to microprocessors microcontrollers Perfect for a one semester course this is the only text that includes both hands on labs and computer simulated labs using Electronics Workbench ALSO AVAILABLE Lab Manual ISBN 0 7668 0330 9

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