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**DEPARTMENT OF EEE**  
**LAB MANUAL**

<b>CLASS</b>	<b>: II YEAR EEE</b>
<b>SEMESTER</b>	<b>: IV SEM</b>
<b>SUBJECT CODE</b>	<b>: EE2259</b>
<b>SUBJECT</b>	<b>: Electrical Machines I Lab</b>

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# Ee2259 Lab Manual

**MR Gates, David, Earl Gates**



## Ee2259 Lab Manual:

**Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 *National Library of Medicine Current Catalog* National Library of Medicine (U.S.),1986 *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 **Laboratory Manual for Introductory Electronics Experiments** L. K. Maheshwari,M. M. S. Anand,1979 *Lab Manual for Introduction to Electronics* Peter Basis,Fabio Freschi,Massimo Mitolo,2013-08-08 This is a student supplement associated with Introduction to Electronics A Basic Approach 1 e Peter Basis ISBN 0132770229 **The Complete Lab Manual for Electricity** Stephen L. Herman,2008-02-25 The Complete Laboratory Manual for Electricity 3rd Edition is a valuable tool designed to fit into any basic electrical program that incorporates lab experience This updated edition will enhance your lab practices and the understanding of electrical concepts From basic electricity through AC theory transformers and motor controls all aspects of a typical electrical curriculum are explored in a single volume Each lab features an explanation of the circuit to be connected with examples of the calculations necessary to complete the exercise and step by step procedures for conducting the experiment Hands on experiments that acquaint readers with the theory and application of electrical concepts offer valuable experience in constructing a multitude of circuits such as series parallel combination RL series and parallel RC series and parallel and RLC series and parallel circuits Important Notice Media content referenced within the product description or the product text may not be available in the ebook version **Industrial Electronics** Paul B. Zbar,Peter Orne,1972-01-01 **Lab Manual** Buchla,1999-01 **Lab Manual (Buchla)** David M. Buchla,1998-05-26 *Lab Manual for Introduction to Electricity* A. J. Triple Sss Press,Robert T. Paynter,Toby Boydell,2010-10 Lab Manual for Introduction to Electricity ISBN 0135106222 is available for purchase and can be ordered through your Pearson representative The lab manual contains over 45 exercises that were written to supplement the text Among its features The opening for each exercise ties the activity to the text material identifies the relevant chapter objectives and helps the student to connect the activity to working in the field Early exercises include detailed descriptions of the circuit connections along with step by step assembly instructions helping the student to build the circuits more quickly and efficiently The circuit descriptions and assembly instructions become more general as students progress through the manual moving them toward more independent lab activities In the first half of the manual circuit diagrams showing how the circuit elements are connected and how the circuit is tested are provided along with the circuit schematics helping the students to make the connection between schematic diagrams and actual component layouts The labs are intended for use with the Lab Volti EMS electromechanical systems line from Lab Volti Systems Inc with test equipment available from other providers However all labs can be adapted to use similar manufacturers **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.elexp.com](http://www.elexp.com) so it is called out in Experiment 3 All components are available from Electronix Express [www.elexp.com](http://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** 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

*Lab Manual for Electronic Communications* Jeffrey S. Beasley, Mark E. Oliver, Jonathan D. Hymer, David Shores, Gary M. Miller, 2013-06-24

This is a student supplement associated with **Electronic Communications A System Approach 1e** Jeffrey S. Beasley Jonathan D. Hymer Gary M. Miller ISBN 0132988631

**The Complete Laboratory Manual for Electricity** Stephen L. Herman, 2009

*Industrial Electronics* Paul Bernard Zbar, 1962

**Instructor's guide for electricity-electronics fundamentals** Paul Bernard Zbar, 1977

*Lab Manual for Meade's Foundations of Electronics, 5th* Russell Meade, Robert Diffenderfer, 2006-05

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*Lab Manual* Nigel P. Cook, Gary A. Lancaster, 2004-02

**Electricity-electronics Fundamentals** Paul B. Zbar, Joseph G. Sloop, 1977

*Laboratory Manual (MultiSIM Emphasis) to Accompany Electronic Devices and Circuit Theory* Robert L. Boylestad, Louis Nashelsky, 2005-04

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