

# EC2306 DIGITAL SIGNAL PROCESSING LAB MANUAL FOR TMS320C5505 DSP

DSP LAB MANUAL

# Ec2306 Lab Manual

**P. David Fisher**



## Ec2306 Lab Manual:

Journal of the House of Representatives of the United States United States. Congress. House, 2000 Some vols include supplemental journals of such proceedings of the sessions as during the time they were depending were ordered to be kept secret and respecting which the injunction of secrecy was afterwards taken off by the order of the House **Reports Required by Congress**, 1997 **ES 402 : Electrical Engineering Lab Manual** Wayne M. Hope, 2000 *ECE 311 and ECE 316 Lab Manual* Wayne M. Hope, 1999 **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 **Electronics for Electrical Engineering Technician Program, ELE 8930 : Lab Manual** Bourgon, Gilles, Algonquin College, 1998 **Electronics-2 for Electrical Engineering Technician Program, ELE 8930 : Lab Manual** Bourgon, Gilles, Algonquin College, 2001 **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 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      *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      **Electronics Fundamentals Student Lab Manual** Global Specialties, 2022-11-13      **Instructor's guide for electricity-electronics fundamentals** Paul Bernard Zbar, 1977      **Digital Electronics Laboratory Manual** P. David Fisher, 1975      Digital Electronics Lab Manual Abraham Michelen, 2000 Accompanying CD ROM includes Electronics Workbench circuits for the experiments in the manual      Electrical Engineering Technology Laboratory Manual John Kaczorowski, 1983      **A Laboratory Manual for Students of Electrical Engineering** George Forster, California Institute of Technology. Division of Engineering and Applied Science, 1926      *Introduction to Electrical and Computer Engineering* Patrick Nunally, 2021-12-26 This laboratory manual is intended for use in an Introduction to Electrical and Computer Engineering course and is appropriate for two and four year electrical engineering curriculums The manual contains sufficient exercises for a typical 15 week course using a two to three hour practicum period The topics range from basic laboratory procedures series parallel circuits mesh and nodal analysis an introduction to capacitors and inductors as well as basic digital logic Boolean equivalents digital encoders decoders mux and demux circuits as well as basic circuits for digital computation For equipment each lab station should include a dual adjustable DC power supply and a quality DMM capable of reading DC voltage current and resistance A selection of standard value 1/4 watt carbon film resistor ranging from a few ohms to a few mega ohms is required along with 10 k and 100 k potentiometers 100 nF and 220 nF capacitors and a few discrete 7400 series logic gates and 555 timers Each exercise begins with an Objective and a Theory Overview The Equipment List follows with space provided for serial numbers and measured values of components Schematics are presented next along with the step by step procedure All data tables are grouped together typically with columns for the theoretical and experimental results along with a column for the percent deviations between them Finally a group of appropriate questions are presented For those with longer scheduled lab times a useful addition is to simulate the circuit s with a SPICE based tool such as LTSpice or similar software and compare those results to the theoretical and experimental results as well      Lab Manual for Introduction to Electronics Earl D. Gates, 1991      *Laboratory Manual for Electronic Devices and Circuits* David A. Bell, 2001 This lab manual accompanies Electronic Devices and Circuits 4 e      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     *Basic Electronics for Mechanical Engineering Technology, ELN 8298 : Lab Manual* Bourgon, Gilles, Algonquin College, 2000

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## **Table of Contents Ec2306 Lab Manual**

1. Understanding the eBook Ec2306 Lab Manual
  - The Rise of Digital Reading Ec2306 Lab Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Ec2306 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 Ec2306 Lab Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ec2306 Lab Manual
  - Personalized Recommendations
  - Ec2306 Lab Manual User Reviews and Ratings
  - Ec2306 Lab Manual and Bestseller Lists
5. Accessing Ec2306 Lab Manual Free and Paid eBooks
  - Ec2306 Lab Manual Public Domain eBooks
  - Ec2306 Lab Manual eBook Subscription Services
  - Ec2306 Lab Manual Budget-Friendly Options
6. Navigating Ec2306 Lab Manual eBook Formats

- ePub, PDF, MOBI, and More
- Ec2306 Lab Manual Compatibility with Devices
- Ec2306 Lab Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ec2306 Lab Manual
  - Highlighting and Note-Taking Ec2306 Lab Manual
  - Interactive Elements Ec2306 Lab Manual
- 8. Staying Engaged with Ec2306 Lab Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ec2306 Lab Manual
- 9. Balancing eBooks and Physical Books Ec2306 Lab Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ec2306 Lab Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ec2306 Lab Manual
  - Setting Reading Goals Ec2306 Lab Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ec2306 Lab Manual
  - Fact-Checking eBook Content of Ec2306 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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