

ANALOG COMMUNICATION LAB

LABORATORY MANUAL



DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING
SHRI JAGADGURURAJ COLLEGE OF ENGINEERING AND TECHNOLOGY
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Analog Communication Experiment Lab Manual Of Jntu

K. Chandrashekhar



Analog Communication Experiment Lab Manual Of Jntu:

Analog and Digital Communication Engineering Lab Manual Volume-1 Bindu Sebastian, Adarsh K. S., Vinod J. Thomas, 2016-02-12 **Analog Communication(Jntu)** Thomas-Chandrasekhar, 2006-12 **Analog Communications, Volumes 1, 2 and 3 : Instructor's Guide** Lab-Volt (Québec) Ltd, 1987 **ELECTRONICS LAB MANUAL (VOLUME 2)** NAVAS, K. A., 2018-10-01 This book is evolved from the experience of the author who taught all lab courses in his three decades of teaching in various universities in India The objective of this lab manual is to provide information to undergraduate students to practice experiments in electronics laboratories This book covers 118 experiments for linear analog integrated circuits lab communication engineering lab power electronics lab microwave lab and optical communication lab The experiments described in this book enable the students to learn Various analog integrated circuits and their functions Analog and digital communication techniques Power electronics circuits and their functions Microwave equipment and components Optical communication devices This book is intended for the B Tech students of Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics It is designed not only for engineering students but can also be used by BSc MSc Physics and Diploma students **KEY FEATURES** Contains aim components and equipment required theory circuit diagram pin outs of active devices design tables graphs alternate circuits and troubleshooting techniques for each experiment Includes viva voce and examination questions with their answers Provides exposure on various devices **TARGET AUDIENCE** B Tech Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics BSc MSc Physics Diploma Engineering Handbook Of Experiments In Electronics A B Sasikala, 2003 Well written handy and comprehensive this laboratory experiments manual caters to the requirements of students of Electronics and Communication Engineering Each experiment in the book provides essential theory aim scope statement equipment required procedure complete circuit diagram tabulation model graphs and results A complete laboratory manual for students of electronics and communication engineering Also useful for EEE EIE CSE IT ICE mechanical and polytechnic students *Analog Communications* Kasturi Vasudevan, 2020-08-14 This textbook covers the fundamental concepts of analog communications with a Q A approach It is a comprehensive compilation of numerical problems and solutions covering all the topics in analog communications Richly illustrated with figures this book covers the important topics of signals and systems random variables and random processes amplitude modulation frequency modulation pulse code modulation and noise in analog modulation It has numerical questions and their solutions clearing the concepts of Fourier transform Hilbert transform modulation synchronization signal to noise ratio analysis and many more All the solutions have step by step approach for easy understanding This book will be of great interest to the students of electronics and electrical communications engineering **Experiments in Analog and Digital Electronics** Thomas E.

Brewer,2004-07-09 LABORATORY EXPERIMENTS AND PSPICE SIMULATIONS IN ANALOG ELECTRONICS

MAHESHWARI, L. K.,ANAND, M. M. S.,2006-01-01 This laboratory manual for students of Electronics Electrical Instrumentation Communication and Computer engineering disciplines has been prepared in the form of a standalone text offering the necessary theory and circuit diagrams with each experiment Procedures for setting up the circuits and measuring and evaluating their performance are designed to support the material of the authors book Analog Electronics also published by PHI Learning There are twenty five experiments The experiments cover the basic transistor circuits the linear op amp circuits the active filters the non linear op amp circuits the signal generators the voltage regulators the power amplifiers the high frequency amplifiers and the data converters In addition to the hands on experiments using traditional test equipment and components this manual describes the simulation of circuits using PSPICE as well For PSPICE simulation any available standard SPICE software may be used including the latest version OrCAD V10 Demo software This feature allows the instructor to adopt a single laboratory manual for both types of experiments **Analog communication lab + LIC lab** K. Chandrashekhar,2012 **Analog and Digital Communication Lab** Jai Agrawal,2015-04-09 This lab book is intended for the Junior senior engineering Technology students This book should accompany regular textbook in analog and digital communication The lab exercises use MATLAB SIMULINK Arduino Uno and employs hardware circuits

Introduction to Analog and Digital Circuits Lab Manual Brian DEAN,2018-08-13 **ANALOG COMMUNICATION** TOMAR, GEETAM SINGH ,BAGWARI, ASHISH ,2016-02-25 This book carries a holistic approach on the analog communication with all the basic concepts pertaining to the subject described in it The text provides an incisive insight into the subject via simple elegant and explicit presentation Organised in ten chapters the book dexterously assimilates the various terms and techniques used in analog communication to enhance a broader understanding of the concepts and their applications Commencing with the basic introduction the book goes on to provide description on analog amplitude modulation single sideband modulation analog angle modulation pulse modulation digital transmission of analog signals and multiplexing Finally it discusses about noise random signal and processes information theory and coding and communication detectors and filters The background of each topic in the book is prepared sensibly by providing suitable illustrations numerical examples detailed explanation of each step given thereby making the understanding of complicated derivations easier This well structured book is specifically written for the undergraduate students of electronics and communication engineering and postgraduate students of electronics *Introduction to Analog and Digital Communication* M. A. Bhagyaveni,R. Kalidoss,K. S. Vishvakshnan,2016-04-15 This book primarily focuses on the design of analog and digital communication systems and has been structured to cater to the second year engineering undergraduate students of Computer Science Information Technology Electrical Engineering and Electronics and Communication departments For better understanding the basics of analog communication systems are outlined before the digital communication systems

section The content of this book is also suitable for the students with little knowledge in communication systems The book is divided into five modules for efficient presentation and it provides numerous examples and illustrations for the detailed understanding of the subject in a thorough manner Technical topics discussed in the book include Analog modulation techniques AM FM and PM Digital modulation techniques ASK PSK FSK QPSK MSK and M ary modulation Pulse modulation techniques and Data communication Source coding techniques Shannon Fano and Huffman coding channel coding techniques Linear block codes and convolutional codes Advanced communication techniques topics includes Cellular communication Satellite communication and multiple access schemes *Analog Electronics in a Digital Setting* Gerald E.

Williams,1988-01-01 **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 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

Analog Communication Rao,2011 **Schaum's Outline of Analog and Digital Communications** Hwei P. Hsu,2012-09-18 Confusing Textbooks Missed Lectures Not Enough Time

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