

LAB MANUAL

Digital Logic Design Lab

B.Tech. III Semester CSE

Debasish Mohanta, Lecturer, EE



Government College of Engineering, Keonjhar

At-Jamunalia Po. -Oldtown, Dist.-Keonjhar

Pin-758002, Odisha

Web-geekjr.ac.in

Department of Electrical Engineering

Electronic Circuits Logic Design Lab Manual

Frank J. Ambrosio



Electronic Circuits Logic Design Lab Manual:

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 The Hands-on XBEE Lab Manual Jonathan A. Titus,2012-05-18 Explains in practical terms the basic capabilities and potential uses of XBee modules and gives engineers the know how that they need to apply the technology to their networks and embedded systems This book provides insight into the product data sheets It saves you time and helps you get straight to the information you need Introduction to Logic Circuits & Logic Design with Verilog Brock J. LaMeres,2017-04-17 This textbook for courses in Digital Systems Design introduces students to the fundamental hardware used in modern computers Coverage includes both the classical approach to digital system design i e pen and paper in addition to the modern hardware description language HDL design approach computer based Using this textbook enables readers to design digital systems using the modern HDL approach but they have a broad foundation of knowledge of the underlying hardware and theory of their designs This book is designed to match the way the material is actually taught in the classroom Topics are presented in a manner which builds foundational knowledge before moving onto advanced topics The author has designed the presentation with learning Goals and assessment at its core Each section addresses a specific learning outcome that the student should be able to do after its completion The concept checks and exercise problems provide a rich set of assessment tools to measure student performance on each outcome **Digital Electronics and Microprocessors Lab Manual** Mr. Rohit Manglik,2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams

and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Lab Manual Latest Edition Dr. J. P. Goel, 2016-12-17 Lab E Manual Physics For XIIth

Practicals A Every student will perform 10 experiments 5 from each section 8 activities 4 from each section during the academic year Two demonstration experiments must be performed by the teacher with participation of students The students will maintain a record of these demonstration experiments

B Evaluation Scheme for Practical Examination One experiment from any one section 8 Marks Two activities one from each section 4 4 8 Marks Practical record experiments activities 6 Marks Record of demonstration experiments Viva based on these experiments 3 Marks Viva on experiments activities 5 Marks Total 30 Marks

Section A Experiments

- 1 To determine resistance per cm of a given wire by plotting a graph of potential difference versus current
- 2 To find resistance of a given wire using metre bridge and hence determine the specific resistance of its material
- 3 To verify the laws of combination series parallel of resistances using a metre bridge
- 4 To compare the emf of two given primary cells using potentiometer
- 5 To determine the internal resistance of given primary cells using potentiometer
- 6 To determine resistance of a galvanometer by half deflection method and to find its figure of merit
- 7 To convert the given galvanometer of known resistance and figure of merit into an ammeter and voltmeter of desired range and to verify the same
- 8 To find the frequency of the a c mains with a sonometer

Activities

- 1 To measure the resistance and impedance of an inductor with or without iron core
- 2 To measure resistance voltage AC DC current AC and check continuity of a given circuit using multimeter
- 3 To assemble a household circuit comprising three bulbs three on off switches a fuse and a power source
- 4 To assemble the components of a given electrical circuit
- 5 To study the variation in potential drop with length of a wire for a steady current
- 6 To draw the diagram of a given open circuit comprising at least a battery resistor rheostat key ammeter and voltmeter Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram

Section B Experiments

- 1 To find the value of v for different values of u in case of a concave mirror and to find the focal length
- 2 To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$
- 3 To find the focal length of a convex mirror using a convex lens
- 4 To find the focal length of a concave lens using a convex lens
- 5 To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation
- 6 To determine refractive index of a glass slab using a travelling microscope
- 7 To find refractive index of a liquid by using i concave mirror ii convex lens and plane mirror
- 8 To draw the I V characteristic curve of a p n junction in forward bias and reverse bias
- 9 To draw the characteristic curve of a zener diode and to determine its reverse break down voltage
- 10 To study the characteristics of a common emitter npn or pnp transistor and to find out the values of current and voltage gains

Activitie

- 1 To study effect of intensity of light by varying distance of the source on a L D R
- 2 To identify a diode a LED a transistor and IC a resistor and a capacitor from mixed collection of such items
- 3 Use of multimeter to i identify base of transistor ii distinguish between npn and pnp type transistors iii see the unidirectional flow of current in case of a diode

and a LED iv check whether a given electronic component e g diode transistor or I C is in working order 4 To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab 5 To observe polarization of liquid using two Polaroids 6 To observe diffraction of light due to a thin slit 7 To study the nature and size of the image formed by i convex lens ii concave mirror on a screen by using a candle and a screen for different distances of the candle from the lens mirror 8 To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses

Suggested Investigatory Projects 1 To investigate whether the energy of a simple pendulum is conserved 2 To determine the radius of gyration about the centre of mass of a metre scale as a bar pendulum 3 To investigate changes in the velocity of a body under the action of a constant force and determine its acceleration 4 To compare effectiveness of different materials as insulators of heat 5 To determine the wavelengths of laser beam by diffraction 6 To study various factors on which the internal resistance emf of a cell depends 7 To construct a time switch and study dependence of its time constant on various factors 8 To study infrared radiations emitted by different sources using photo transistor 9 To compare effectiveness of different materials as absorbers of sound 10 To design an automatic traffic signal system using suitable combination of logic gates 11 To study luminosity of various electric lamps of different powers and make 12 To compare the Young s modulus of elasticity of different specimens of rubber and also draw their elastic hysteresis curve 13 To study collision of two balls in two dimensions 14 To study frequency response of i a resistor an inductor and a capacitor ii RL circuit iii RC circuit iv LCR series circuit

Introduction to Logic Circuits & Logic Design with VHDL Brock J. LaMer, 2019-03-19 This textbook introduces readers to the fundamental hardware used in modern computers The only pre requisite is algebra so it can be taken by college freshman or sophomore students or even used in Advanced Placement courses in high school This book presents both the classical approach to digital system design i e pen and paper in addition to the modern hardware description language HDL design approach computer based This textbook enables readers to design digital systems using the modern HDL approach while ensuring they have a solid foundation of knowledge of the underlying hardware and theory of their designs This book is designed to match the way the material is actually taught in the classroom Topics are presented in a manner which builds foundational knowledge before moving onto advanced topics The author has designed the content with learning goals and assessment at its core Each section addresses a specific learning outcome that the learner should be able to do after its completion The concept checks and exercise problems provide a rich set of assessment tools to measure learner performance on each outcome This book can be used for either a sequence of two courses consisting of an introduction to logic circuits Chapters 1 7 followed by logic design Chapters 8 13 or a single accelerated course that uses the early chapters as reference material

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Lab Manual Troubleshooting and Design to Accompany Digital Systems Frank J. Ambrosio,1997 [A Practical Guide for Simulation and FPGA Implementation of Digital Design](#) Bekkay Hajji,Adel Mellit,Loubna Bouselham,2022-03-21 This book introduces the FPGA technology used in the laboratory sessions and provides a step by step guide for designing and simulation of digital circuits It utilizes the VHDL language which is one of the most common language used to describe the design of digital systems The Quartus II Xilinx ISE 14 7 and ModelSim software are used to process the VHDL code and make simulations and then the Altera and Xilinx FPGA platforms are employed to implement the simulated digital designs The book is composed of four parts The first part of this book has two chapters and covers various aspects FPGA

architectures ASIC vs FPGA comparison FPGA design flow and basic VHDL concepts necessary to describe the design of digital systems The second part of the book includes three chapters that deal with the design of digital circuits such as combinational logic circuits sequential logic circuits and finite state machines The third part of the book is reserved for laboratory projects carried out on the FPGA platform It is a largely hands on lab class for design digital circuits and implementing their designs on the Altera FPGA platform Finally the fourth part of this work is devoted to recent applications carried out on FPGAs in particular advanced techniques in renewable energy systems The book is primarily intended for students scholars and industrial practitioners interested in the design of modern digital systems Computer Design Aids for VLSI Circuits P. Antognetti, Donald O. Pederson, Hugo De Man, 2013-11-11 The Nato Advanced Study Institute on Computer Design Aids for VLSI Circuits was held from July 21 to August 1 1980 at Sogesta Urbino Italy Sixty three carefully chosen professionals were invited to participate in this institute together with 12 lecturers and 7 assistants The 63 participants were selected from a group of almost 140 applicants Each had the background to learn effectively the set of computer IC design aids which were presented Each also had individual expertise in at least one of the topics of the Institute The Institute was designed to provide hands on type of experience rather than consisting of solely lecture and discussion Each morning detailed presentations were made concerning the critical algorithms that are used in the various types of computer IC design aids Each afternoon a lengthy period was used to provide the participants with direct access to the computer programs In addition to using the programs the individual could if his expertise was sufficient make modifications of and extensions to the programs or establish limitations of these present aids The interest in this hands on activity was very high and many participants worked with the programs every free hour The editors would like to thank the Direction of SOGESTA for the excellent facilities 1r R Riccioni of the SOGESTA Computer Center and Mr 11 Vanzi of the University of Genova for enabling all the programs to run smoothly on the set date P Antognetti D O Pederson Urbino Summer 1980

Electronic Circuits Logic Design Lab Manual: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have captivated audiences this year. Electronic Circuits Logic Design Lab Manual : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Electronic Circuits Logic Design Lab Manual : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Electronic Circuits Logic Design Lab Manual : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papan, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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