

# **ELECTRONIC CIRCUITS - II**

(EE 352)

## **LAB MANUAL**



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# Electronic Circuits 2 Lab Manual

**Srinivasa Murthy**



## **Electronic Circuits 2 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 **Electronic Circuits I and II Lab Manual** Wayne M. Hope, 2004 *Lab Manual to Accompany Tocci's Digital Systems, Principles and Applications, 3/E* Jim C. DeLoach, 1985 *Canadiana*, 1985 **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

**Activities** 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 IC 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 light 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      **PSpice for Circuit Theory and Electronic Devices** Paul Tobin, 2007 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.

**Laboratory Manual for Introductory Electronics Experiments** L. K. Maheshwari, M. M. S. Anand, 1979      Penn State Tech Prep Reference Manual John P. Cancro, Robert E. Carnahan, 1998

**MSP430 Microcontroller Lab Manual** James Kretzschmar, Jeffrey Anderson, Steven F. Barrett, 2023-05-23 This book is a practical reference for using Texas Instruments MSP430 microcontrollers. It provides a series of hands-on laboratory exercises. The labs may be completed in a traditional laboratory setting or at home using the Digilent Analog Discovery 2 Test Instrument. This book can be used as a reference for planning future projects using the MSP430 microcontroller. The authors focus on applications of the main peripheral modules available on the MSP430 microcontroller: CPU, clock, Basic Input/Output, Timer, Analog to Digital Converter. They also provide examples of how to develop Pulse Width Modulation signals and how to use Interrupts.

'American Book Publishing Record' Cumulative R. R. Bowker LLC, 1978      Experiments with Electricity and Electronics Hazen, 1997-11-02      **Fundamentals of Electrical and Electronics Engineering | AICTE Prescribed Textbook - English** Susan S. Mathew, Saji T. Chacko, 2021-11-01 Fundamentals of Electrical Electronics Engineering is a compulsory paper for the first year Diploma course in Engineering Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE and academic content is amalgamated with the concept of outcome-based education. Books covers six topics: Overview of Electronics Components and Signals, Overview of Analog Circuits, Overview of Digital Electronics.

Electric and magnetic Circuits A C Circuits and Transformer and Machines Each topic is written in easy and lucid manner A set of exercises at the end of each unit to test the student's comprehension is provided Some salient features of the book

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Vocational-technical Learning Materials Bruce Reinhart,1974      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      **Day and Evening Bulletin** Milwaukee Vocational and Adult Schools,1959      **American Book Publishing Record** ,1982-04      Open Science in Engineering Michael E. Auer,Reinhard Langmann,Thrasyvoulos Tsiatsos,2023-12-31 The REV Conference is the annual conference of the International Association of Online Engineering IAOE together with the Global Online Laboratory Consortium GOLC REV 2023 is the 20th in a series of annual events concerning the area of online engineering cyber physical systems and Internet of things including remote engineering and virtual instrumentation In a globally connected world the interest in online collaboration teleworking remote services and other digital working environments is rapidly increasing In response to that the general objective of this conference is to contribute and discuss fundamentals applications and experiences in the field of online and remote engineering virtual instrumentation and other related new technologies including Cross reality Open Science Internet of Things and Industrial Internet of Things Industry 4.0 Cyber security M2M and smart objects      Computer Books and Serials in Print ,1985      Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1949 Includes Part 1A Books and Part 1B Pamphlets Serials and Contributions to Periodicals  
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## **Table of Contents Electronic Circuits 2 Lab Manual**

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

6. Navigating Electronic Circuits 2 Lab Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Electronic Circuits 2 Lab Manual Compatibility with Devices
  - Electronic Circuits 2 Lab Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Electronic Circuits 2 Lab Manual
  - Highlighting and Note-Taking Electronic Circuits 2 Lab Manual
  - Interactive Elements Electronic Circuits 2 Lab Manual
8. Staying Engaged with Electronic Circuits 2 Lab Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Electronic Circuits 2 Lab Manual
9. Balancing eBooks and Physical Books Electronic Circuits 2 Lab Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Electronic Circuits 2 Lab Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Electronic Circuits 2 Lab Manual
  - Setting Reading Goals Electronic Circuits 2 Lab Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electronic Circuits 2 Lab Manual
  - Fact-Checking eBook Content of Electronic Circuits 2 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



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