



# **ELECTRONIC CIRCUITS - I**

## **lab Manual (EO-261)**

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**BAPATLA-522 101**

# Electronic Circuit 1 Lab Manual

**Dr. J. P. Goel**



## **Electronic Circuit 1 Lab Manual:**

*Electric Circuits Laboratory Manual* Farzin Asadi, 2023-03-27 This book provides insights into practical aspects of electric circuits. The author provides real world examples throughout this book. The devices chosen for this book can be found in nearly all laboratories. No expensive measurement devices are used throughout the book. Someone who reads this book has a better understanding of practical aspects of electric circuits. Chapter 1 introduces tools that will be used in the next chapters. Chapter 2 studies the resistors and contains 9 experiments. Chapter 3 studies the digital multimeters and contains 7 experiments. Chapter 4 studies Kirchhoff's voltage current law, nodal mesh analysis, and Thevenin equivalent circuits. This chapter contains 5 experiments. Chapter 5 studies the first and second order circuits RC, RL, and RLC and contains 4 experiments. Chapter 6 studies the DC and AC steady state behavior of electric circuits and frequency response of filters and has 5 experiments. Chapter 7 studies magnetic coupling and transformers and contains 3 experiments. Appendix A shows how different types of graphs can be drawn with MATLAB. Appendix B reviews the concept of root mean square. Analog

Electronic Circuits Laboratory Manual Farzin Asadi, 2023-04-06 This is a book for a lab course meant to accompany or follow any standard course in electronic circuit analysis. It has been written for sophomore or junior electrical and computer engineering students either concurrently with their electronic circuit analysis class or following that class. This book is appropriate for non-majors such as students in other branches of engineering and in physics for which electronic circuits is a required course or elective and for whom a working knowledge of electronic circuits is desirable. This book has the following objectives: 1 To support, verify, and supplement the theory to show the relations and differences between theory and practice. 2 To teach measurement techniques. 3 To convince students that what they are taught in their lecture classes is real and useful. 4 To help make students tinkers and make them used to asking what-if questions. **Laboratory Manual for Electronic**

**Devices and Circuits** David A. Bell, 2001 This lab manual accompanies *Electronic Devices and Circuits* 4 e

*ELECTRONICS LAB MANUAL Volume I, FIFTH EDITION* NAVAS, K. A., 2015-09-11 This lab manual is intended to support the students of undergraduate engineering in the related fields of electronics engineering for practicing laboratory experiments. It will also be useful to the undergraduate students of electrical science branches of engineering and applied science. This book begins with an introduction to the electronic components and equipment and the experiments for electronics workshop. Further, it covers experiments for basic electronics lab, electronic circuits lab, and digital electronics lab. A separate chapter is devoted to the simulation of electronics experiments using PSpice. Each experiment has aim, components and equipment required, theory, circuit diagram, tables, graphs, alternate circuits, answered questions, and troubleshooting techniques. Answered viva voce questions and solved examination questions given at the end of each experiment will be very helpful for the students. The purpose of the experiments described here is to acquaint the students with Analog and digital devices, Design of circuits, Instruments, and procedures for electronic test and measurement.

**Laboratory Manual for Introductory Electronics Experiments** L. K. Maheshwari, M. M. S. Anand, 1979      *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

**Lab Manual-Physics-TB-12\_E-R** Dr R K Gupta, Lab Manual Physics TB 12\_E R **Physics Lab Manual** Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual **Core Science Lab Manual with Practical Skills for Class X** V. K. Sally, Chhaya Srivastava, Goyal Brothers Prakashan, 2019-01-17 Goyal Brothers Prakashan **Analog**

**Electronic Circuits Laboratory Manual** Farzin Asadi, 2024-04-08 This is a book for a lab course meant to accompany or follow any standard course in electronic circuit analysis It has been written for sophomore or junior electrical and computer engineering students either concurrently with their electronic circuit analysis class or following that class This book is appropriate for non majors such as students in other branches of engineering and in physics for which electronic circuits is a required course or elective and for whom a working knowledge of electronic circuits is desirable This book has the following objectives 1 To support verify and supplement the theory to show the relations and differences between theory and practice 2 To teach measurement techniques 3 To convince students that what they are taught in their lecture classes is real and useful 4 To help make students tinkers and make them used to asking what if questions Laboratory Manual for Electronic

Circuits - 1 Murat AKSOY, 2018-10-31 **Hard Bound Lab Manual Physics** Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manuals *Hard Bound Lab Manual Science* Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manuals **Canadiana**, 1988 Digital Design from Zero to One Jerry D. Daniels, 1996-04-19 Takes a fresh look at basic digital design From definition to example to graphic illustration to simulation result the book

progresses through the main themes of digital design Technically up to date this book covers all the latest topics Field programmable gate arrays PALs and ROMs The latest memory chips for SRAM and DRAM are shown Software for creating the excitation equations of FSM are covered as well as LogicWorks and Beige Bag PC and more      **Mathematics as a Laboratory Tool** John Milton,Toru Ohira,2014-09-18 This introductory textbook is based on the premise that the foundation of good science is good data The educational challenge addressed by this introductory textbook is how to present a sampling of the wide range of mathematical tools available for laboratory research to well motivated students with a mathematical background limited to an introductory course in calculus      **Electronics with Discrete Components** Enrique J. Galvez,2025-01-03 Comprehensive textbook on electronics for physicists now with more examples exercises hands on electronics labs troubleshooting tips and practical exercises Electronics with Discrete Components delivers a comprehensive overview of electronics from the perspective of a physicist In the first part on digital components after an introduction to digital electronics the text covers fundamentals of combinational logic and its implementation in combinational logic devices followed by sequential logic devices such as flip flops and memory components The second part on analog components deals with the fundamentals of signal processing filters components such as diodes and transistors and a lengthy coverage of operational amplifiers Each chapter ends with problem sets and lab projects that have been proven to work well for instruction Questions on simple aspects of the lab that students should know are also included such as regarding powering components and diagnosing signals with the oscilloscope and providing troubleshooting tips to help students find out why a particular circuit does not work The new edition of this textbook adds more worked examples exercises with answers for the self learner and end of chapter problems It adds new electronic components covers the latest digital technologies plus adds a new section of Fourier transforms in electronics In addition it features labs with Arduino or Teensy boards which have become widespread in the community as inexpensive easy to use electronics platforms Electronics with Discrete Components includes information on Number systems codes signed numbers binary functions logic families and IC wirings Filters and the frequency domain covering RC high and low pass and cascading filters FFTs as well as important considerations for filter design Connecting digital to analog and to the world through TTL CMOS and LV gates and interfacing between the logic families Charge and potential capacitors electrical current resistors magnetic components power circuits and abstractions and symbol jargon in the field The Second Edition of Electronics with Discrete Components is an ideal textbook resource for a one semester course on electronics for second year physics students as well as students from other disciplines or levels who understand elementary notions of circuits and complex numbers      **Lab Manual Science Class 10** Neena Sinha, R.Rangarajan, Rajesh Kumar, These Lab Manuals provide complete information on all the experiments listed in the latest CBSE syllabus The various objectives materials required procedures inferences etc have been given in a step by step manner Carefully framed MCQs and short answers type questions given at the end of the experiments help the students prepare for

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