

*Lab Component
of
Second Semester Engineering Mathematics*
as prescribed by Visvesvaraya Technological University, Belagavi



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Lab Manual Vtu 4th Sem

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Analog Circuits and its Simulation in PSPICE Dr A Chrispin Jiji, 2021-06-23 This book is intended to support the students of undergraduate engineering in the related fields of Electronics and Communication Engineering as well as Telecommunication Engineering courses for practicing laboratory experiments It gives relevant information on the basic understanding of circuit configurations and connectivity of BJT and FET Amplifiers and Study of frequency response It presents the design and test of Analog circuits using OPAMPs understand the feedback configurations of transistor and OPAMP circuits and the use of circuit simulation for the analysis of electronic circuits using PSPICE It also provides various methods and techniques for conducting the experiment Clear circuit diagrams and proper calculations have been provided for all the experiments and simple language has been used throughout the book for better understanding of the concepts for the students

Analog Integrated Circuits with PSPICE Dr A Chrispin Jiji, 2021-12-21 This book is intended to support the students of undergraduate engineering in the related fields of Electronics and Communication Engineering as well as Telecommunication Engineering courses for practicing laboratory experiments It gives relevant information on the basic understanding of circuit configurations and connectivity of BJT and FET Amplifiers and Study of frequency response It presents the design and test of Analog Integrated circuits using OPAMPs understand the feedback configurations of transistor and OPAMP circuits and the use of circuit simulation for the analysis of electronic circuits using PSPICE It also provides various methods and techniques for conducting the experiment Clear circuit diagrams and proper calculations have been provided for all the experiments and simple language has been used throughout the book for better understanding of the concepts for the students

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Advances in Structural Engineering Vasant Matsagar, 2014-12-12 The book presents research papers presented by academicians researchers and practicing structural engineers from India and abroad in the recently held Structural Engineering Convention SEC 2014 at Indian Institute of Technology Delhi during 22-24 December 2014 The book is divided into three volumes and encompasses multidisciplinary areas within structural engineering such as earthquake engineering and structural dynamics structural mechanics finite

element methods structural vibration control advanced cementitious and composite materials bridge engineering and soil structure interaction Advances in Structural Engineering is a useful reference material for structural engineering fraternity including undergraduate and postgraduate students academicians researchers and practicing engineers *National Union Catalog*, 1973 Includes entries for maps and atlases **The National union catalog, 1968-1972**, 1973 *Autocar*, 1998

Laboratory Manual In Applied Physics (As Per Vtu Syllabus) H. Sathyaseelan, 2008-01-01 California Four-in-one Lab Manual Glencoe/McGraw-Hill, 2006* *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 LDR
- 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

Lab Manual to accompany Physical Science Bill Tillery, 2008-09-05 [Lab Manual to Accompany Physical Science](#) Bill W. Tillery, Tillery Bill, 2006-03 (WCS) *Extraordinary Chemistry 4th Edition LN Labs with Study Tips and Lab Manual 4th Edition Set* Carl H. Snyder, 2005-11-18 [Lab Manual](#) Azimuth Interactive, 2005-04-01 **Lab Manual Course 1**, *Extraordinary Chemistry 4th Edition Late Night Labs with Lab Manual Set* Carl H. Snyder, 2005-09 [Laboratory Manual for Principles of General Chemistry](#) Jo Allan Beran, 1999-11-17 This flexible lab manual appropriate for use with a wide range of general chemistry books offers a wealth of practical chemistry experiments It includes pertinent information on rules and safety in the lab Preparation of the new edition was guided by specific feedback from users **Laboratory Manual For Electronic Devices And Circuits 4Th Ed.** Bell, *Physics 202 Laboratory Manual, 4th Edition* Sheehan, 2016-05-25 *Lab Manual* Nigel P. Cook, Gary A. Lancaster, 2004-02

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