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Edition

Physics 103 - Lab Manual



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Phys 103 Lab Manual

**Albert Watson Davison, Henry Sjoerd
van Klooster**



Phys 103 Lab Manual:

Physics 103 : Laboratory Manual University of Alberta. Department of Physics,1984 **Physics Laboratory Manual : PHYS 103, 104, 105, 106** University of Alberta. Department of Physics,1993 Engineering Physics: With Laboratory Manual N.H. Ayachit,2010-09-29 The present book is designed for the first year engineering students **A Laboratory Manual of Physics and Applied Electricity** Edward Leamington Nichols,1894 Laboratory Manual of Physics for Arts Students Ohio State University. Department of Physics,1931 **Physics 103** ,1984 *Practical/Laboratory Manual Physics Class - XII -by Er. Meera Goyal (SBPD Publications)* Er. Meera Goyal,2021-07-03 In accordance to the new syllabus of Central Board of Secondary Education CBSE New Delhi and other State Boards following CBSE Curriculum **A Laboratory Manual of Physics for Use in High Schools** Henry Crew,Robert Richardson Tatnall,1902 **Physics 103 Laboratory Manual University of Maryland 2011** Fred Wellstood,2011-09-13 A Laboratory Manual of Experiments in Physics Leonard Rose Ingersoll,1925 Core Laboratory Manual of Physics for Class XI Anil Sharma,Prashant Sharma,Goyal Brothers Prakashan,2020-04-16 Goyal Brothers Prakashan Practical/Laboratory Manual Physics Class XII based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal Dr. J. P. Goel, Er. Meera Goyal,2020-06-24

SECTION A

EXPERIMENTS

1 To determine resistance per cm of a given wire by plotting a graph for potential difference versus current
2 To find resistance of a given wire using meter bridge and hence determine the specific resistance Resistivity of its material
3 To verify the laws of combination Series Parallel of resistance using ammeter bridge
4 To compare the e m f of two given primary cells using potentiometer
5 To determine the internal resistance of a given primary cell e g Leclanche cell using potentiometer
6 To determine the resistance of a galvanometer by half deflection method and to find its figure of merit
7 A To convert a given galvanometer of known resistance and figure of merit into an ammeter of desired range and to verify the same
7 B To convert a given galvanometer of known resistance and figure of merit into a voltmeter of desired range and to verify the same
8 To find the frequency of AC mains with a sonometer and horse shoe magnet

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

SECTION A 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 given circuit using multimeter 3 To assemble a household circuit comprising of 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 atleast a battery resistor rheostat key ammeter and voltmeter Make the components that are not connected in proper order and correct the circuit and also the circuit diagram

SECTION B ACTIVITIES

- 1 To study effect of intensity of light by varying distance of the source on an LDR Light Depending Resistor
- 2 To identify a diode a LED a transistor an IC a resistor and a capacitor from mixed collection of such items
- 3 Use a multimeter to i identify the transistor ii distinguish between n p n and p n p type transistor iii see the unidirectional flow of current in case of a diode and a LED iv Check whether a given electronic components 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 polarisation 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 candle and a screen for different distance 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 PROJECT

- 1 To Study Various factors on which the Internal Resistance EMF of a cell depends
- 2 To study the variations in current following in a circuit containing L D R because of variation a In the power of incandescent lamp used to illuminate the L D R Keeping all the lamps in fixed position b In the Distance of a incandescent lamp of fixed power used to illuminate the L D R
- 3 To find the refractive indices of a Water b Oil Transparent using a plane mirror an equiconvex lens made from a glass of known refractive index and an adjustable object needle
- 4 To design an appropriate logic gate combination for a given truth table
- 5 To investigate the relation between the ratio of i Output and Input voltage ii Number of turns in secondary coils and primary coils of a self designed transformer
- 6 To Investigate the dependence of angle of deviation on the angle of incidence using a hollow prism filled one by one with different transparent fluids
- 7 To Estimate the charge induced on each one of the two identical styrofoam balls suspended in a vertical plane by making use of Coulomb's Law
- 8 To study the factors on which the self inductance of a coil depends by observing the effect of this coil when put in series with a resistor bulb in a circuit fed up by an a.c source of adjustable frequency
- 9 To study the earth's magnetic field using a tangent galvanometer

APPENDIX Some Important Tables of Physical Constants Logarithmic and other Tables

A Laboratory Manual of Physics for Use in Secondary Schools Charles Elijah Linebarger, 1911

An Index to Undergraduate Science National Science Foundation (U.S.). Office of Experimental Projects and Programs, 1974

Laboratory Manual of Physical Chemistry Albert Watson Davison, Henry Sjoerd van Klooster, 1922

College Science Improvement Programs; COSIP A & B Report National Science Foundation (U.S.). Office of Experimental Programs, 1974

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