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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**
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NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal Dr. J. P. Goel, Er. Meera Goyal,2020-06-24 SECTION A
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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

- To study effect of intensity of light by varying distance of the source on an LDR Light Depending Resistor
- To identify a diode a LED a transistor an IC a resistor and a capacitor from mixed collection of such items
- Use a multimeter to
 - identify the transistor
 - distinguish between n p n and p n p type transistor
 - see the unidirectional flow of current in case of a diode and a LED
 - Check whether a given electronic components e g diode transistor or IC is in working order
- To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab
- To observe polarisation of light using two polaroids
- To observe diffraction of light due to a thin slit
- To study the nature and size of the image formed by
 - convex lens
 - concave mirror on a screen by using candle and a screen for different distance of the candle from the lens mirror
- To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses

SUGGESTED INVESTIGATORY PROJECT

- To Study Various factors on which the Internal Resistance EMF of a cell depends
- To study the variations in current following in a circuit containing L D R because of variation
 - In the power of incandescent lamp used to illuminate the L D R Keeping all the lamps in fixed position
 - In the Distance of a incandescent lamp of fixed power used to illuminate the L D R
- 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
- To design an appropriate logic gate combination for a given truth table
- To investigate the relation between the ratio of
 - Output and Input voltage
 - Number of turns in secondary coils and primary coils of a self designed transformer
- 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
- 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
- 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
- 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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