

Conceptual Foundations

PRACTICAL PHYSICS



Completely
Revised
New Edition
in
English



CLASS **XII**

Comprehensive Physics Practical Manual Standard 12

Minjie Lin



Comprehensive Physics Practical Manual Standard 12:

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 AC 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 Practical/Laboratory Manual Physics Class - 12 Er. Meera Goyal, 2023-04-30 Sections A 1 Experiments 2 Activities
 Sections B 1 Experiments 2 Activities 3 Suggested Investigatory 4 Project Work **The Publishers' Trade List Annual**
 ,1883 *The Publishers Weekly* ,1903 *The Era Druggists' Directory* ,1913 *The Era Druggists' Directory of the United*
States, Canada, Cuba and the U. S. Possessions ,1911 *Comprehensive Brachytherapy* Peter J. Hoskin, Dimos Baltas, Ali S.
 Meigooni, 2012-11-08 Modern brachytherapy is one of the most important oncological treatment modalities requiring an
 integrated approach that utilizes new technologies advanced clinical imaging facilities and a thorough understanding of the
 radiobiological effects on different tissues the principles of physics dosimetry techniques and protocols and clinical expertise
 A complete overview of the field *Comprehensive Brachytherapy Physical and Clinical Aspects* is a landmark publication
 presenting a detailed account of the underlying physics design and implementation of the techniques along with practical
 guidance for practitioners Bridging the gap between research and application this single source brings together the
 technological basis radiation dosimetry quality assurance and fundamentals of brachytherapy In addition it presents
 discussion of the most recent clinical practice in brachytherapy including prostate gynecology breast and other clinical
 treatment sites Along with exploring new clinical protocols it discusses major advances in imaging robotics dosimetry Monte
 Carlo based dose calculation and optimization Comprehensive Brachytherapy Jack Venselaar, Ali S. Meigooni, Dimos
 Baltas, Peter J. Hoskin, 2012-11-08 Modern brachytherapy is one of the most important oncological treatment modalities
 requiring an integrated approach that utilizes new technologies advanced clinical imaging facilities and a thorough

understanding of the radiobiological effects on different tissues the principles of physics dosimetry techniques and protocols and clinical expertise A complete overview of the field Comprehensive Brachytherapy Physical and Clinical Aspects is a landmark publication presenting a detailed account of the underlying physics design and implementation of the techniques along with practical guidance for practitioners Bridging the gap between research and application this single source brings together the technological basis radiation dosimetry quality assurance and fundamentals of brachytherapy In addition it presents discussion of the most recent clinical practice in brachytherapy including prostate gynecology breast and other clinical treatment sites Along with exploring new clinical protocols it discusses major advances in imaging robotics dosimetry Monte Carlo based dose calculation and optimization Publishers' Weekly ,1905 *The Pharmaceutical Era* ,1892

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