

EXPERIMENT - 1

AIM : To determine the resistance per cm of a given wire by plotting a graph of potential difference versus current and hence to determine the resistivity.

THEORY:

According to Ohm's law, "If physical conditions of a conductor such as temperature, pressure etc. remains constant, then electric current (I) flowing through the conductor is directly proportional to the potential difference (V) applied across the ends of the conductor,

$$\text{i.e. } I \propto V \Rightarrow V \propto I \text{ OR } V = IR$$

$$R = \frac{V}{I}$$

$R = \text{constant of proportionality}$

✓ called RESISTANCE OF THE CONDUCTOR.

R depends upon the material, temperature and dimensions of the conductor. To establish current voltage relationship, it is to be shown that ratio V/I remains constant for a given resistance. For a wire of uniform cross section, the resistance depends on the length ' l ' and area of cross section ' A '

$$R = \rho \frac{l}{A}$$

$\rho = \text{resistance (specific) or resistivity of the material of wire.}$

Teacher's Signature : _____

Ncert Physics Practical Manual Class Xii

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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
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Practical/Laboratory Manual Physics Class XI based on NCERT guidelines by Dr. J. P. Goel & Er. Meera Goyal Dr. J. P. Goel ,Er. Meera Goyal,2020-06-26

EXPERIMENTS

- 1 Measurement of Length
 - 1 To measure the diameter of a small spherical cylindrical body by using a vernier callipers
 - 2 To measure the dimensions of a given regular body of known mass using vernier callipers and hence find its density
 - 3 To measure the internal diameter and depth of a given cylindrical vessel say calorimeter beaker by using vernier callipers and hence find its internal volume i.e. capacity
- Viva voce
- 2 Screw Gauge Micrometer
 - 4 To determine the diameter of a given wire using a screw gauge and find its volume
 - 5 To find the thickness of a given sheet with the help of screw gauge
 - 6 To measure the volume of an irregular lamina by using a screw gauge
- Viva voce
- 3 Spherometer
 - 7 To measure the radius of curvature of a given spherical surface
 - convex lens by using a spherometer
- Viva voce
- 4 Mass and Weight
 - 8 To determine the mass of two different objects using a beam balance
- Viva voce
- 5 Parallelogram Law of Vectors
 - 9 To find the weight of a given body using parallelogram law of vectors
- Viva voce
- 6 Simple Pendulum Measurement of Time
 - 10 Using a simple pendulum plot L vs T and L vs T^2 graphs Hence find the effective length of a second's pendulum using appropriate graphs
- Viva voce
- 7 Friction
 - 11 To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and a horizontal surface
- Viva voce
- 8 Motion of a Body Along an Inclined Plane
 - 12 To find the downward force along an inclined plane acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination by plotting graph between force and \sin
- Viva voce

SECTION B EXPERIMENTS

- 1 Elasticity
 - 1 To determine the Young's modulus of elasticity of the material of the wire using Searle's apparatus
- Viva voce
- 2 Spring Constant
 - 2 To find the spring constant of a helical spring by plotting load extension graph
- Viva voce
- 3 Boyle's Gas Law
 - 3 To study the variation in volume with pressure for a sample of air constant temperature by plotting graphs between P and V and between P and $1/V$
- Viva voce
- 4 Surface Tension
 - 4 To determine the surface tension of water by capillary rise method
- Viva voce
- 5 Viscosity
 - 5 To determine the coefficient of viscosity of given liquid by measuring the terminal velocity of a given spherical body in it
- Viva voce
- 6 Newton's Law of Cooling
 - 6 To study the relationship between temperature of a hot body and time by plotting a cooling curve
- Viva voce
- 7 Vibrations of Strings
 - 7 To study the relation between frequency and length for a given wire under constant tension using a sonometer
- Viva voce
- 8 To study the relation between the length of a given wire and tension for constant frequency using sonometer
- Viva voce
- 8 Vibrations of Air Columns
 - 9 To find the velocity of sound in air at room temperature using a resonance tube by two resonance position
- Viva voce
- 9 Specific Heat
 - 10 To determine specific heat of a given solid by the method of mixture
 - 11 To determine the specific heat of a given liquid by method of mixture
- Viva voce

SECTION A ACTIVITIES

- 1 To make a paper scale of given least count e.g. 0.2 cm, 0.5 cm and use it to measure the length of a given object
- 2 To determine the mass of a given body using a metre scale and by applying principle of moments
- Viva voce
- 3 To plot a graph for a given set of data using proper

choice of scales and error bars Viva voce 4 To measure the force of limiting friction for rolling of a roller on horizontal plane Viva voce 5 To study the variation in the range of a jet of water with angle of projection Viva voce 6 To study the conservation of energy of a ball rolling down on inclined plane using a double inclined plane Viva voce 7 To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time Viva voce SECTION B ACTIVITIES 1 To observe the change of the state and plot a cooling curve for molten wax Viva voce 2 To observe and explain the effect of heating on a bimetallic strip Viva voce 3 To note the change in level of liquid in a container on heating and interpret the observations Viva voce 4 To study the effect of detergent in surface tension by observing capillary rise Viva voce 5 To study the factors affecting the rate of loss of heat of a liquid Viva voce 6 To study the effect of load on depression of a suitably clamped meter scale loaded i at its end ii in the middle Viva voce 7 To observe the decrease in pressure with the increase in velocity of the fluid Viva voce APPENDIX Some Important Tables of Physical Constants Log Antilog and other Tables *Oswaal CBSE Question Bank Class 12 Physics, Chapterwise and Topicwise Solved Papers For Board Exams 2025* Oswaal Editorial Board, 2024-01-23 Description of the product 100% Updated Syllabus Fully Solved Board Papers we have got you covered with the latest and 100% updated curriculum Crisp Revision with Topic wise Revision Notes Smart Mind Maps Mnemonics Extensive Practice with 3000 Questions Board Marking Scheme Answers to give you 3000 chances to become a champ Concept Clarity with 1000 Concepts 50 Concept Videos for you to learn the cool way with videos and mind blowing concepts NEP 2020 Compliance with Art Integration Competency Based Questions for you to be on the cutting edge of the coolest educational trends *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 *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 *Oswaal CBSE Sample Question Papers Physics, Chemistry, Mathematics, English Core Class 11 (Set of 4 Books) For 2025 Exam* Oswaal Editorial Board, 2024-08-27 Description of the product This product covers the following Fresh Relevant with the Latest Typologies of Questions Score Boosting Insight with 450 Questions 250 Concepts approx Insider Tips Techniques with On Tips Notes Mind Maps Mnemonics Exam Ready to Practice with 5 Solved 5 Self Assessment Papers *Oswaal CBSE Question Bank Class 11 Physics, Chapterwise and Topicwise Solved Papers For 2025 Exams* Oswaal Editorial Board, 2024-02-03 Description of the product 100% Updated Syllabus Question Typologies We have got you covered with the latest and 100% updated curriculum along with the latest typologies of Questions Timed Revision with Topic wise Revision Notes Smart Mind Maps Study smart not hard Extensive Practice with 1000 Questions SAS Questions Sri Aurobindo Society To give you 1000 chances to become a champ Concept Clarity with 500 Concepts Concept Videos For you to learn the cool way with videos and mind blowing concepts NEP 2020 Compliance with Competency Based Questions Artificial Intelligence

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Physics 1 To determine the focal length of concave mirror 2 To find the focal length of convex lens by two pin method 3 To find the image distance for varying object distances in case of a convex lens and drawing corresponding ray diagrams to show the nature of image formed 4 To trace the path of the rays of light through a glass prism 5 To trace the path of a ray of light passing through a rectangular glass slab for different angles of incidence 6 To study the dependence of potential difference V across a resistor on the current I passing through it and determine its resistance Also plotting a graph between V and I 7 To determine the equivalent resistance of two resistors when connected in series and parallel

Chemistry 8 To find the pH of the following samples by using pH paper universal indicator 9 To study the properties of a base dil NaOH Solution and Acid HCl by their reaction with a Litmus solution Blue Red b Zinc metal c Solid sodium carbonate 10 To perform and observe the following reactions and to classify them into a Combination reaction b Decomposition reaction c Displacement reaction d Double displacement reaction i Action of water on quick lime ii Action of heat on ferrous sulphate crystals iii Iron nails kept in copper sulphate solution iv Reaction between sodium sulphate and barium chloride solutions 11 To observe the action of Zn Fe Cu and Al on the following salt solutions a ZnSO_4 aq b FeSO_4 aq c CuSO_4 aq d Al_2SO_4 3 aq Based on the above result to arrange Zn Fe Cu and Al metals in the decreasing order of reactivity 12 To study the following properties of acetic acid ethanoic acid i Odour ii Solubility in water iii Effect on litmus iv Reaction with sodium hydrogen carbonate 13 To study the comparative cleaning capacity of a sample of soap in soft and hard water

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Report - Educational Research and Innovations Committee, National Council of Educational Research and Training National Council of Educational Research and Training (India),1979

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