

# CORE LABORATORY MANUAL IN PHYSICS

For Class XI

CORE LABORATORY MANUAL IN PHYSICS

FOR CLASS XI



GOYAL BROTHERS PRAKASHAN

# Physics Lab Manual Xii Cbse Project

**Anil Sharma, Prashant Sharma**



## **Physics Lab Manual Xii Cbse Project:**

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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 coulombs 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 **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

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**Annual Report** National Council of Educational Research and Training (India),2005 *CBSE Laboratory Manual*

*Physics Class 12th* Er. Akash Shukla, 2022-12-13 Once Owen Chamberlain said The development of Physics like the development of any science is a continuous one It is a constant effort of NCERT that it puts on its textbooks to promote clearer understanding of concepts in every student As important as theoretical study is practical study is also essential to prove theories into realities The freshly updated edition of LABORATORY MANUAL Physics for class XII has been designed as a complete package to understand all the relevant Physics experiments in a simple lucid and interactive manner Strictly based on CBSE guidelines each experiment includes theory to give deep insights into each concept formula term definition etc Viva Voce questions Precautions Activities Diagrams and Appendices are accumulated to make concepts clearer in accordance with the curriculum Along with the experiments suggested Investigatory Projects will reveal the complete adherence of CBSE curriculum This book serves as a step by step guide for conducting experiments in such a way that students will not need to refer to any other book for explanations of the concepts An all inclusive guidance book for Physics laboratory experiment Coverage of each experiment in a simple and lucid manner Detailed and Step by Step procedure for each experiment Necessary precautions to be followed for the experiment Viva Voce Questions to get an understanding on the experiment Suggested Investigatory Projects of the CBSE curriculum Clearly labeled Diagrams in each experiment Appendices related to some useful data TABLE OF CONTENT General Introduction of Practical Work How to Record an Experiment Experimental Errors Logarithms Basic Trigonometry Study of Graphs Section A Experiments Activities Section B Experiments Activities Suggested Investigatory Projects Appendices *Scientific and Technical Aerospace Reports*, 1985

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**following the curriculum of CBSE.** Dr. Priyanka Gupta, Mr. Kaushalesh Dwivedi, 2022-08-04 With the NEP and expansion of research and knowledge has changed the face of education to a great extent In the Modern times education is not just constricted to the lecture method but also includes a practical knowledge of certain subjects This way of education helps a student to grasp the basic concepts and principles Thus trying to break the stereotype that subjects like Physics Chemistry and Biology means studying lengthy formulas complex structures and handling complicated instruments we are trying to make education easy fun and enjoyable Modern Physics Laboratory Manual Physics' Teachers' Association of Minneapolis, Archer W. Hurd, 1921 **Physics Lab Manual Student Grd 12 2nd Edition** 182238, 2005-02-25 The Student Laboratory Manual provides extensive laboratory exercises and experiments to reinforce concepts and stimulate interest in further studies **A Manual of Experiments and Projects in Physics** Henri Clyde Krennerick, 2021-09-09 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public To ensure a quality reading experience this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy to read typeface We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant Physics Experiments And Projects For Students Vol- C Isenberg, 1998-01-01 Physics Lab Manual Frank Eshelman, Ken Schaefer, 2010-03-22 This Physics Lab Manual was written to accompany the Logos Science Physics Lab Kit It is written with a strong Christian emphasis and is coordinated to work with most popular Christian texts Experiments 1 Scientific Analysis 2 Recording Timer and Acceleration of Gravity 3 Sum of Vectors 4 Projectile Motion 5 Newton's Second Law 6 Centripetal Force 7 Acceleration on an Inclined Plane 8 Force of Friction 9 Work and Power 10 Hooke's Law Elastic Potential Energy 11 Potential and Kinetic Energy 12 Conservation of Momentum 13 Conservation of Energy and Momentum 14 Momentum and Collisions 15 A Pendulum 16 Speed of Sound in Air 17 Specific Heat of Metal 18 Latent Heat of Fusion 19 Buoyant Force 20 Static Electricity 21 Capacitors 22 Resistors 23 Ohm's Law 24 Diodes and Transistors 25 Magnetic Fields 26 Making an Electric Motor 27 Reflections From a Curved Mirror 28 Refraction 29 Lenses 30 Wavelength of a Laser Light 31 Wavelengths of the Visible Spectrum 32 Laser Measurement 33 Nuclear Diameter **Laboratory Approach to the Physical Sciences** Conrad Erwin Ronneberg, 1955

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## **Table of Contents Physics Lab Manual Xii Cbse Project**

1. Understanding the eBook Physics Lab Manual Xii Cbse Project
  - The Rise of Digital Reading Physics Lab Manual Xii Cbse Project
  - Advantages of eBooks Over Traditional Books
2. Identifying Physics Lab Manual Xii Cbse Project
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Physics Lab Manual Xii Cbse Project
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Lab Manual Xii Cbse Project
  - Personalized Recommendations
  - Physics Lab Manual Xii Cbse Project User Reviews and Ratings
  - Physics Lab Manual Xii Cbse Project and Bestseller Lists
5. Accessing Physics Lab Manual Xii Cbse Project Free and Paid eBooks

- Physics Lab Manual Xii Cbse Project Public Domain eBooks
- Physics Lab Manual Xii Cbse Project eBook Subscription Services
- Physics Lab Manual Xii Cbse Project Budget-Friendly Options
- 6. Navigating Physics Lab Manual Xii Cbse Project eBook Formats
  - ePub, PDF, MOBI, and More
  - Physics Lab Manual Xii Cbse Project Compatibility with Devices
  - Physics Lab Manual Xii Cbse Project Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physics Lab Manual Xii Cbse Project
  - Highlighting and Note-Taking Physics Lab Manual Xii Cbse Project
  - Interactive Elements Physics Lab Manual Xii Cbse Project
- 8. Staying Engaged with Physics Lab Manual Xii Cbse Project
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physics Lab Manual Xii Cbse Project
- 9. Balancing eBooks and Physical Books Physics Lab Manual Xii Cbse Project
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physics Lab Manual Xii Cbse Project
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physics Lab Manual Xii Cbse Project
  - Setting Reading Goals Physics Lab Manual Xii Cbse Project
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physics Lab Manual Xii Cbse Project
  - Fact-Checking eBook Content of Physics Lab Manual Xii Cbse Project
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development



- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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