

## EXPERIMENT NO. 7

# The Vernier and Micrometer Calipers

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### I. OBJECTIVES

- To learn the proper use of the Vernier and Micrometer Calipers
- To make accurate measurements of short distances using the Vernier and Micrometer calipers.

### II. THEORY/DISCUSSION

The accuracy of a measurement is always limited by the precision of the apparatus used and the skill of the Observer in using it. No reading on an apparatus used in measuring physical quantities is ever exact since a point is always reached at which the reading becomes uncertain. The last or final digit of the reading is often just an estimate and, therefore, doubtful. However, this digit is important because it might significantly affect the results of the computations.

In linear measurement, the meter stick can be used. But because of the limited accuracy of the meter stick in measuring small objects, one should resort to the use of the vernier and micrometer calipers.

### III. MATERIALS

Vernier caliper	Magnifying lens	Triple-beam balance
Micrometer Caliper	Coin	
Metal Cylinder	Steel ball	

# Vernier Lab Manual

**Dr R K Gupta**



## **Vernier Lab Manual:**

*Physics Lab Manual* Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual Lab Manual-Physics-TB-11\_E-R1 Dr R K Gupta, Lab Manual Physics TB 11\_E R1 **Hard Bound Lab Manual Physics** Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manuals *ICSE-Lab Manual Physics-TB-09* Dr M K Gandhi, ICSE Lab Manual Physics TB 09 Physics Lab Manual Class XI | According to the latest CBSE syllabus and other State Boards following the CBSE curriculum Mr. Rohit Manglik, Mr. Pradeep 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 EduGorilla's CBSE Class 11th Physics Lab Manual | 2024 Edition | A Well Illustrated, Complete Lab Activity book with Separate FAQs for Viva Voce Examination, 2024-01-01 Need an informative and well illustrate Lab Manual CBSE Class 11th Physics Lab Manual is here for you The Lab Manual provides comprehensive steps for guiding students through each experiment Rigorously researched content prepared by a team of educators writers editors and proofreaders CBSE Class XI Physics Lab Manual has properly labeled high diagrams and graphs A separate section on Viva Questions has been included to aid students in their Viva examination The Lab Manual explains the complex topics through detailed illustrations and lucid language making them simple to grasp Worksheets have been provided in CBSE Class 11th Physics Lab Manual for doing rough work Lab Manual Latest Edition Dr. J. P. Goel, 2016-12-17 Lab E Manual Physics For XIIth Practicals A Every student will perform 10 experiments 5 from each section 8 activities 4 from each section during the academic year Two demonstration experiments must be performed by the teacher with participation of students The students will maintain a record of these demonstration experiments B Evaluation Scheme for Practical Examination One experiment from any one section 8 Marks Two activities one from each section 4 4 8 Marks Practical record experiments activities 6 Marks Record of demonstration experiments Viva based on these experiments 3 Marks Viva on experiments activities 5 Marks Total 30 Marks Section A Experiments 1 To determine resistance per cm of a given wire by plotting a graph of potential difference versus current 2 To find resistance of a given wire using metre bridge and hence determine the specific resistance of its material 3 To verify the laws of combination series parallel of resistances using a metre bridge 4 To compare the emf of two given primary cells using potentiometer 5 To determine the internal resistance of given primary cells using potentiometer 6 To determine resistance of a galvanometer by half deflection method and to find its figure of merit 7 To convert the given galvanometer of known resistance and figure of merit into an ammeter and voltmeter of desired range and to verify the same 8 To find the frequency of the a c mains with a sonometer 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 a given circuit using multimeter 3 To assemble a household circuit comprising 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 at least a battery resistor rheostat key ammeter and voltmeter Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram

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

**Activities** 1 To study effect of intensity of light by varying distance of the source on a L D R 2 To identify a diode a LED a transistor and IC a resistor and a capacitor from mixed collection of such items 3 Use of multimeter to i identify base of transistor ii distinguish between npn and pnp type transistors iii see the unidirectional flow of current in case of a diode and a LED iv check whether a given electronic component e g diode transistor or I C 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 polarization 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 a candle and a screen for different distances 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 Projects** 1 To investigate whether the energy of a simple pendulum is conserved 2 To determine the radius of gyration about the centre of mass of a metre scale as a bar pendulum 3 To investigate changes in the velocity of a body under the action of a constant force and determine its acceleration 4 To compare effectiveness of different materials as insulators of heat 5 To determine the wavelengths of laser beam by diffraction 6 To study various factors on which the internal resistance emf of a cell depends 7 To construct a time switch and study dependence of its time constant on various factors 8 To study infrared radiations emitted by different sources using photo transistor 9 To compare effectiveness of different materials as absorbers of sound 10 To design an automatic traffic signal system using suitable combination of logic gates 11 To study luminosity of various electric lamps of different powers and make 12 To compare the Young's modulus of elasticity of different specimens of rubber and also draw their elastic hysteresis curve 13 To study collision of two

balls in two dimensions 14 To study frequency response of i a resistor an inductor and a capacitor ii RL circuit iii RC circuit iv LCR series circuit **Addison Wesley Chemistry 5th Edition Probeware Lab Manual 2002c** Antony C.

Wilbraham,Dennis D. Staley,Michael S. Matta,Edward L. Waterman,Prentice-Hall Staff,2001-02 To purchase or download a workbook click on the Purchase or Download button to the left To purchase a workbook enter the desired quantity and click Add to Cart To download a free workbook right click the FREE Download PDF link and save to your computer This will result in a faster download as opposed to left clicking and opening the link [Manufacturing Practices Laboratory Manual For Engineering Courses](#) M.S. Matharu,Sukhpal Singh,2021-05-19 This manual covers in details the theory and practices of

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**Laboratory Manual of Physics for Class XI** Anil Sharma,Prashant Sharma,Goyal Brothers Prakashan,2020-04-16 Goyal Brothers Prakashan [PHYSICS LABORATORY PRACTICAL MANUAL](#) JANE WHITE, 1 To determine the wavelength of

monochromatic light by Newton s ring 2 To determine the wavelength of monochromatic light with the help of Fresnel s biprism 3 To determine the focal length of two lenses by nodal slide and locate the position of cardinal points 4 To determine the specific rotation of canesugar solution using biquartz or half shade polarimeter 5 To determine the wavelength of spectral lines using plane transmission grating 6 To study the polarisation of light by simple reflection using laser 7 To determine the wavelength of a laser He Ne light using single slit diffraction 8 To determine the specific resistance of the material of given wire using Carey Foster s bridge 9 To study the variation of magnetic field along the axis of current carrying circular coil and then to estimate the radius of the coil 10 To verify Stefan s law by electrical method 11 To calibrate the given ammeter and voltmeter by potentiometer 12 To study the Hall effect and determine Hall coefficient carrier density and mobility of a given semiconductor using Hall effect set up 13 To determine the energy band gap of a given

semiconductor material 14 To determine the energy band gap of a semiconductor material using four probe method 15 To determine electro chemical equivalent E C E of copper using tangent or Helmholtz galvanometer 16 To draw the hysteresis curve B H curve of a given specimen of ferromagnetic material and from this to determine its hyteresis loss 17 To determine the ballistic constant of a moving coil ballistic galvanometer 18 To determine the coefficient of viscosity of water by Poiseuille s method 19 To determine the coefficient of viscosity of a liquid by rotating viscometer 20 To measure fiber attenuation and numerical aperture of fiber 21 To determine high resistance by leakage method 22 To determine magnetic susceptibility of a paramagnetic solution by Quincke s method **Microwave and Optical Communications Lab Manual** Mr. Rohit

Manglik,2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels [ENC](#)

Focus ,2001      Experimental science, exercises in elementary physics. (Manual training in lab. work). Arthur Hubble,1896

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**Mathematics & Science in the Real World** ,2000      *Innovative Techniques in Instruction Technology, E-learning, E-assessment and Education* Magued Iskander,2008-08-20 Innovative Techniques in Instruction Technology E Learning E Assessment and Education is a collection of world class paper articles addressing the following topics 1 E Learning including development of courses and systems for technical and liberal studies programs online laboratories intelligent testing using fuzzy logic evaluation of on line courses in comparison to traditional courses mediation in virtual environments and methods for speaker verification 2 Instruction Technology including internet textbooks pedagogy oriented markup languages graphic design possibilities open source classroom management software automatic email response systems tablet pcs personalization using web mining technology intelligent digital chalkboards virtual room concepts for cooperative scientific work and network technologies management and architecture 3 Science and Engineering Research Assessment Methods including assessment of K 12 and university level programs adaptive assessments auto assessments assessment of virtual environments and e learning 4 Engineering and Technical Education including cap stone and case study course design virtual laboratories bioinformatics robotics metallurgy building information modeling statistical mechanics thermodynamics information technology occupational stress and stress prevention web enhanced courses and promoting engineering careers 5 Pedagogy including benchmarking group learning active learning teaching of multiple subjects together ontology and knowledge representation 6 Issues in K 12 Education including 3D virtual learning environment for children e learning tools for children game playing and systems thinking and tools to learn how to write foreign languages

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### **Table of Contents Vernier Lab Manual**

1. Understanding the eBook Vernier Lab Manual
  - The Rise of Digital Reading Vernier Lab Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Vernier Lab Manual
  - 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 Vernier Lab Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Vernier Lab Manual
  - Personalized Recommendations
  - Vernier Lab Manual User Reviews and Ratings



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