

Cbse Class 12 Physics Lab Manual

Experiments

Indian Book Industry 1983

The Physics Lab Manual I Experiments to Accompany Physics 1501/1610

Laboratories Clymer

2019-07-12

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 liquid 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.

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Lab Sparks: Amazing Physics - Level-2 for Classes 9-12: A Student-Friendly Practical Manual | You Can See, Feel & Explore! | 30+ Visual

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KUNDAN KUMAR 2025-10-13

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Physics Lab Manual Class XII According to the Latest

CBSE Syllabus and Other State Boards Following the CBSE Curriculum Edugorilla Prep Experts 2022-08-18 The all new class 12 physics Lab Manual, by Mr. Pradeep Dwivedi is strictly based on the curriculum prescribed by CBSE, State Boards of Chhattisgarh, Haryana, Bihar, Jharkhand, Kerala, Mizoram, Meghalaya, and other state boards. All the experiments in this Science Lab Manual have been given in a simple, lucid and interactive manner. The theory given with each experiment gives complete knowledge of each term, concept and definition in order to provide a compact knowledge to the students at one place. Viva-Voce questions are given with each experiment to test students' understanding of related experiments. All the lab based experiments have well-labeled diagrams which clearly demonstrate the details of the apparatus that are used, the correct way of handling laboratory apparatus and perform the experiments methodically. The basic

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purpose of this Lab Manual is to provide the students with appropriate guidance so that they can easily understand, carry out, and document the experiments in the Science Laboratory. Some demonstration experiments are also included to illustrate principles and laws of physics. Illustrative diagrams have been used at the places where it is required. The Lab Manual comes with practical lessons followed by lab experiments after each chapter, projects and attached Notebook for jotting down all the essential information. The aim of this Science Lab Manual is to help class 12 students to prepare and understand the complex physics concepts through experimental approach by utilizing pedagogically enhanced content of the Lab Manual and with a compact knowledge base for improving their analytical, experimental skills and learning abilities.

Science Reporter 1997
Lab Sparks: Amazing Physics - Complete Edition for Classes 6-12: The Ultimate Practical

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visuals & diagrams • □ Real-Life Connections – See how physics works in daily life • □ Safety Tips & Student Reflections after every activity • □ Aligned with NCERT/CBSE Syllabus & NEP 2020 Guidelines • □ Perfect for Practical Files, Science Fairs, Project Work & Competitive Exam Prep (NEET/JEE) • □ Graded Difficulty: Simple Home Experiments (Class 6-8) to Advanced Lab Activities (Class 9-12) □ Imagine: • Watching a fire tornado dance in a jar! • Making a rainbow with just a mirror and water! • Building a homopolar motor that spins using only a battery and magnet! • Feeling sound waves vibrate through the air! • Lighting a bulb using just a pencil lead! • Defying gravity with magnetic levitation! This isn't just a lab manual — it's a journey from "Why?" to "Wow!" It builds scientific thinking, problem-solving skills, and a lifelong love for the invisible forces that shape our world. □ Perfect For: • CBSE/State Board Students (Class 6-12) • NEET & JEE-

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Physics Lab Manual Class XI According to the Latest CBSE Syllabus and Other State Boards Following the CBSE Curriculum Edugorilla Prep Experts 2022-07-05 The better understanding is developed not only through theoretical knowledge but practical knowledge is equally important to enhance the overall understanding of the subject and topics. So Mr. Pradeep Dwivedi has introduced a complete lab activity book which is strictly based on class 11 physics CBSE pattern, and follows the

latest NCERT and State Board curriculum. All the experiments in this Science Lab Manual have been given in a simple, lucid and interactive manner. The theory given with each experiment gives complete knowledge of each term, concept and definition in order to provide a compact knowledge to the students at one place. Viva-voce questions are given with each experiment to test students understanding of related experiments. All the lab based experiments have well-labeled diagrams which clearly demonstrate the details of the apparatus that are used, the correct way of handling Laboratory apparatus and perform the experiments methodically. The basic purpose of this Lab Manual is to provide the students with appropriate guidance so that they can easily understand, carry out, and document the experiments in the Science Laboratory. Some demonstration experiments are also included to illustrate principles and laws of physics. Illustrative diagrams have been

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Lab Sparks: Amazing Physics - Level-1 for Classes 6-8: A Student-Friendly Practical Manual | You Can See, Feel & Explore! | 35+ Visual Experiments Based on NCERT/CBSE & NEP

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manual designed for curious minds in ****Classes 6-8 (Ages 10-14)****. This book brings physics to life through fun, safe, and visually engaging experiments that you can do at home or in school. From spinning gyroscopes to balloon-powered cars, from bending light with water to watching sound waves vibrate — every experiment is crafted to make science an experience, not just a subject. □ What's Inside? • □ Step-by-step instructions with emoji-based visuals • □ Real-life connections — see how physics works in everyday life • □ Student reflections & fun facts after each experiment • □ Safety tips for every activity • □ Aligned with NCERT/CBSE syllabus and NEP 2020 guidelines • □ Perfect for project files, science fairs, and classroom learning □ Imagine: • Watching a fire tornado dance in a jar! • Making a rainbow with just a mirror and water! • Building a hovercraft from a CD and balloon! • Feeling sound waves with your own hands! • Spinning motors using just magnets and wires!

This book is more than a lab manual — it's a spark that ignites curiosity, builds scientific thinking, and turns every young learner into a real-life physicist. □ Perfect For: • CBSE/State Board Students (Class 6-8) • Science Teachers & Homeschooling Parents • School Practical Files & Science Exhibition Projects • Gift for Young Scientists Who Love to Explore! □ By Kundan Kumar (PGT Chemistry), Creator of "Short & Sweet Chemistry" (YouTube) and Founder of "Short & Sweet Services" □ Because Physics Isn't Just Formulas — It's Energy in Motion! Ready to turn ordinary ingredients into extraordinary adventures? Let's get started!

Practical/Laboratory Manual Physics Class XII based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal
Dr. J. P. Goel 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 a meter 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

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index 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 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.

Core Laboratory Manual of Physics for Class XII Anil Sharma 2020-04-16 Goyal Brothers Prakashan *Chemistry Lab Manual Class XII Follows the Latest CBSE Syllabus and Other State Board Following the CBSE*

Curriculum. Edugorilla Prep Experts 2022-07-05 Chemistry is all about conducting various experiments and having a deep study about them. This deep analysis and study cannot solely be done with theories, and practical experiments are necessary for better skill development of the students. Considering this, every year CBSE conducts the

chemistry practicals in addition to the theory examinations. This class 12 chemistry lab manual contains all the essential information that the students will require while commencing the practicals. CBSE class 12th, chemistry lab manual has been prepared strictly according to CBSE guidelines which follows the NCERT and other State Board curriculum. All the experiments in this lab manual have been given in a simple, lucid and interactive manner. The theory given with each experiment gives complete knowledge of each term, concept and definition in order to provide a compact knowledge to the students at one place. Viva-Voce questions are given with each experiment to test students' understanding of related experiments. Mr. Kaushalesh Dwivedi, is the author of this complete lab activity book for class 12 chemistry. All the lab based experiments have well-labeled diagrams which clearly demonstrate the details of the apparatus that are used, the

correct way of handling Laboratory apparatus and perform the experiments methodically. The basic purpose of this lab manual is to provide the students with appropriate guidance so that they can easily understand, carry out, and document the experiments in the Science Laboratory. The Lab Manual comes with practical lessons followed by Lab experiments after each chapter, projects and Notebook for jotting down all the essential information. The aim of this Science Lab Manual is to help class 12 students to prepare and understand the complex chemistry concepts through experimental approach by utilizing pedagogically enhanced content of the lab manual and with a compact knowledge base for improving their analytical, experimental skills and learning abilities. **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
A Laboratory Manual of Experiments in Physics
 Leonard Rose Ingersoll 1956

A Manual of Experiments in Physics; Laboratory Instruction for College Classes Joseph Sweetman Ames 2012-08-01

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A Manual of Experiments in Physics Joseph Sweetman Ames 1898

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.

Physics Laboratory Manual for

Undergraduates Dr.Yusuf Hanif Shaikh We are happy to bring out this book titled 'Physics Laboratory Manual for Undergraduates'. It contains 16 experiments based on concepts from mechanics, fluid mechanics, electricity, magnetism, optics, and electronics. This book has been written to meet the requirements of undergraduate students. Text has been thoroughly revised and brought up-to-date by adding essential experiments. In this book theory, formulae regarding the experiment have been included. List of necessary apparatus for the experiment has been given. Experimental procedure in systematic steps has been included in it. The observations in tabular form have been encouraged throughout the text. Precautions have been given at the end of the experiment so that students can follow them while performing the experiment. We hope that all these features of the book will prove very useful for the students. Suggestions about

any errors, mistakes, doubts, additions and deletions in the book are also invited. If the students find any difficulty in these experiments, they may please write an email to the authors. A critical review from the academic community will indeed help us in future. Our sincere thanks to Kailash publication and its entire staff for publishing this book. We extend our thanks to our family members for their support during preparation of this manuscript. Lastly, we extend our sense of gratitude towards all those who helped us in this endeavor directly and indirectly.

Cbse Class 12 Physics Lab Manual Experiments

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