Lab Manual For Vernier Calliper Experiment

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Practical Physics; a Laboratory Manual for Colleges and Technical Schools Goyal Brothers Prakashan

ICSE-Lab Manual Physics-TB-09

Kinanthropometry and Exercise Physiology Laboratory Manual New Saraswati House India Pvt Ltd

SECTION : A 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–T and L–T2 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 18 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 co-effective 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 curv 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 interprect 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 itsend (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

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Manufacturing Practices Laboratory Manual For Engineering Courses Cengage Learning

Introduction * Torsional Pendulum * Compound Pendulum * Laser Grating Determination Of Wavelength * Optical Fibres-Measurement Of Numerical Aperture * Optical Fibres * Attenuation In Fibres * Spectrometer-Refractive Index Of Prism * Spectrometer * I-D Curve O Air Wedged * Hysterisis-Energy Loss Of Ferrites * B.H. Curve-Energy Loss Of Ferrites (Display Of B.H. Curve On Cro Screen) * Magnetic Susceptibility-Quincke'S Method * Band Gap Energy Of A Semiconductor * Semiconductor Diode Characteristics * Compressibility Of Liquid-Ultrasonic Interferometer * Excess Adiabatic Compressibility Of A Binary * Mixture-Ultrasonic Interferometer * Magnetic Susceptibility-Quincke'S Method (Alternative Approach) * Magnetic Susceptibility-Guoy'S Method.

Practical/Laboratory Manual Physics Class - XII -by Er. Meera Goyal (SBPD Publications)

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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 specifi resistance (Resistivity) of its material, 3.To verify the laws of combination (Series/Parallel) of resistance using ameter 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 function 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 Verious 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 incomdescent lamp used to illum inate the L.D.R. Keeping all the lamps in fixed position (b) In the Distance of a in condescent lamp (of fixed power) used to illum inate the L.D.R. 3. To find the

refractive indeces 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 turms 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 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 coulomob'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

Lab Manual-Physics-TB-12_E-R Abhishek Publications

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.

Physics Laboratory Manual New Saraswati House India Pvt Ltd

Goyal Brothers Prakashan

A Laboratory Manual of Experiments in Physics Taylor & Francis

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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Physics Lab ManualNew Saraswati House India Pvt Ltd

Engineering Practices Lab Manual - 5Th E

Physics Lab Manual

Engineering Practices Lab Manual covers all the basic engineering lab practices in the Civil, Mechanical, Electrical and Electronics areas. The manual details the various tools to be used and exercises to be practiced in the application of engineering practices in each field.

A Laboratory Manual of Physics for

Use in Secondary Schools Vikas Publishing House

FROM THE PREFACE The purpose of this laboratory manual is to facilitate the understanding of the most relevant unit operations in food engineering. The first chapter presents information on how to approach laboratory experiments; topics covered include safety, preparing for a laboratory exercise, effectively performing an experiment, properly documenting data, and preparation of laboratory reports. The following eleven chapters cover unit operations centered on food applications: dehydration . . . . , thermal processing, friction losses in pipes, freezing, extrusion, evaporation, and physical separations. These chapters are systematically organized to include the most relevant theoretical background pertaining to each unit operation, the objectives of the laboratory exercise, materials and methods . . ., expected results, examples, questions, and references. The experiments presented have been designed for use with generic equipment to facilitate the adoption of this manual . . . .

Physics Laboratory Manual Psychology Press

Lab Manual *Hard Bound Lab Manual Physics* Oswaal Books and Learning Private Limited

Reflecting the latest changes in standards and technology, market-leading FUNDAMENTALS OF DIMENSIONAL METROLOGY, 6e combines hands-on applications with authoritative, comprehensive coverage of the principles, techniques, and devices used within today's dimensional metrology field. The Sixth Edition has been thoroughly revised and updated in direct response to reviewer feedback. The new edition features an easier to understand presentation, a new lab manual/workbook, updated photos and illustrations and updated references to measurement standards.. The text continues to use both metric and imperial systems but emphasizes metric measurement devices and concepts in all examples for greater consistency with the latest industry trends. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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Kinanthropometrics is the study of the human body size and somatotypes and their quantitative relationships with exercise and nutrition. This is the third edition of a successful text on the subject.

Laboratory Manual in Applied Physics Scientific Publishers

This manual covers in details the theory and practices of - Carpentry and Pattern Making Shop - Foundry Shop - Smithy and Forging Shop - Machine Shop - Welding Shop - Electrical and Electronic Shops - Sheet Metal Shops - Fitting Shop

Practical/Laboratory Manual Physics Class XII based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal New Age International

Lab Manuals

Kinanthropometry and Exercise Physiology Laboratory Manual: Anthropometry SBPD Publications

This compendium of twenty laboratory experiments on metals and alloys attempts to provide to students of Science and Engineering an insight about the relationship of the physical, specially mechanical properties of metals with grain structures/microstructures. In almost all the experiments, therefore, the microstructural investigation is provided. Experiments have also been included on the determination of important mechanical and thermal properties and on the aqueous and atmospheric corrosion of metals. Theoretical background of each experiment has been dealt with in good detail in order to enable the student to understand the underlying principles and to appreciate the significance of the experiments. Information which could not be accommodated given in the text of the experiments, has been provided in the form of appendices.These include: reflection microscopy, experimental determination of transition points through cooling curves to get data for plotting phase diagrams, and quenching media for tempering of alloys. In view of the importance of microstrucures for some metals and alloys have also been given.

Physics Laboratory Manual New Saraswati House India Pvt Ltd

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