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The Physics Lab Manual II Experiments to Accompany Physics 1502/2611 Laboratories

2007-10-04 this lab manual provides students with the basic knowledge needed to successfully participate in a physics laboratory course for non physics majors in part a the manual gives step by step instructions about how to use the common measurement hardware labquest2 and the video analysis program imagej through this manual students learn how to create measurement graphs with microsoft excel and how to analyze measurement data including error analysis in part b students find lab experiments on the topics of motion force newton s laws torque energy and heat

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University Physics Lab Manual Volume Two 2021-07-13 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 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 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 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

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