

# PHYS 152: Laboratory Manual Spring 2020



by Thomas Gredig

# Phys 122 Lab Manual

**Dr. J. P. Goel**



## Phys 122 Lab Manual:

Lab Manual for Physics 122 James Degraffenreid, Lavinia Sebastian, 2018-12-12      *Physics 122 - University Physics I*  
James Degraffenreid, 2018-07-31      **Physics 122**, 2006      **LAB MANUAL FOR PHYSICS 122** JAMES. ELAQAD  
DEGRAFFENREID (GHADA. SEBASTIAN, LAVINIA.), 2024      *Physics 122 Laboratory Manual--University of Maryland* Fred  
Wellstood, 2001-08-01      **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 Activitie

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

Lab Manual-Physics-TB-12\_E-R Dr R K Gupta, Lab Manual Physics TB 12\_E R      **Lab Manual-Physics-TB-11\_E-R1** Dr R K Gupta, Lab Manual Physics TB 11\_E R1      **A Laboratory Manual in Physics** Newton Henry Black,1913      Laboratory Manual for Exercise Physiology, Exercise Testing, and Physical Fitness Terry J. Housh,Joel T. Cramer,Joseph P. Weir,Travis W. Beck,Glen O. Johnson,2017-06-30 Laboratory Manual for Exercise Physiology Exercise Testing and Physical Fitness is a comprehensive text that will provide students with meaningful lab experiences whether they have access to sophisticated laboratories and expensive equipment or they are looking for procedures that can be done without costly materials It will be a useful resource as they prepare for a career as an exercise science professional athletic trainer coach or physical educator The more than 40 labs cover seven major components of physical fitness They are practical and easy to follow consisting of a clear logical format that includes background information step by step procedures explanatory photographs sample calculations norms and classification tables and worksheets Lab ending activities and questions provide additional opportunities to practice the procedures and explore issues of validity reliability and accuracy Readers will find this manual a valuable tool in learning to apply physiological concepts and to perform exercise tests as well as an essential resource for any

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 section has been greatly expanded due to the increased prevalence of new molecular techniques being used in laboratories  
 References are now found after each test rather than at the end of each section for easier access     An Index to  
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web diagram indicating kinetochore microtubules bound to kinetochores and the aster the aster is an array of microtubules that radiates out from the centrosome towards the cell edge diagram also indicates the centromere region of a chromosome the narrow waist where the two sister chromatids are most tightly connected and the kinetochore a

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web the daughter cells are clones of each other every base pair of their is identical the stages of the cell cycle are the stages of mitosis are prophase metaphase anaphase

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web specifically compare the chromosomes in cells at the end of mitosis vs the end of meiosis i recognizing that the diagram of mitosis tracks just a single pair of homologous chromosomes whereas the diagram of meiosis tracks two pairs of homologous chromosomes one long chromosome and short chromosome

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web prophase prometaphase the cell prepares for mitosis at this stage the chromosomes are not clearly visible the chromosomes pairs of sister chromatids condense and become visible meanwhile the nucleolus and nuclear envelope disappear the centrioles begin moving to opposite ends of the cell and start forming the mitotic spindle metaphase

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