Lab Manual for OPNET Training

Using this book

In each section, there is some information about what you are doing and why, and some step-by-step instructions in **bold** type. There are also screenshots of the lab at various stages. For each section, read through the lab once to see what you will be doing, then go back and follow the instructions. There are screenshots above some sections that show what your project should look like. When you are done with the section, if the rest of the class is still working, we suggest that you look at the Online Documentation (under the Help menu) and search for relevant topics or topics of interest to you.

Opnet Guru Lab Manual

Adarshpal S. Sethi,Vasil Y. Hnatyshin

Opnet Guru Lab Manual:

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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 u 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 Networking Essentials** Course Technology Staff,2000-03 *Integrated Science Lab Manual (Custom Edition)* Tillery, **Lab Manual for Hayes/Rosenberg's Data, Voice and Video Cabling, 3rd** Jim Hayes,2008-07 The Lab Manual for DATA VOICE AND VIDEO CABLING 3rd Edition is a valuable tool designed to enhance your classroom experience Lab activities objectives materials lists step by step procedures illustrations review questions and more are all included **Lab Manual** Jean Andrews,2009-11-20 The Lab Manual for A Guide to Managing and Maintaining your PC Seventh Edition contains additional labs designed to accompany the A Guide to Managing and Maintaining Your PC Seventh Edition This lab manual provides the additional hands on practice needed to succeed in the industry and serves as an excellent resource to prepare for CompTIA s 2009 A exams Important Notice Media content referenced within the product description or the product text may not be available in the ebook version **Lab Manual** Nigel P. Cook,Gary A. Lancaster,2004-02 **Lab Manual** Gregory L. Moss,1991 *Lab Manual* Bogart,2003-09 *Exam 70-215 Project Lab Manual* Laudon,2003-07 *Lab Manual for Plaster's Soil Science and Management, 5th* Edward Plaster,2013 The Laboratory Manual is a valuable tool designed to enhance your lab experience Lab activities objectives materials lists step by step procedures illustrations and review questions are commonly found in a Lab Manual *Integrated Science Laboratory Manual* Charles O'Neill,J O'Neill,1991-05-01 **Lab Manual for Andrews' A+ Guide to Hardware** Jean Andrews,2013-01-01 The Lab Manual is a valuable tool designed to enhance your lab experience Lab activities objectives materials lists step by step procedures illustrations and review questions are commonly found in a Lab Manual 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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