

$$R_L = 100\Omega$$

$$f = 50\text{Hz}$$

$$C = 470\mu\text{F}$$

$$\text{Efficiency } \eta = P_{DC} / P_{AC} \Rightarrow (I_{DC}^2 * R_L) / [(I_{rms})^2 * (R_L + R_f + R_s)]$$

Where $I_{rms} = I_{M}/\sqrt{2}$ and $I_M = V_M / (R_L + R_f + R_s)$

$$\text{Efficiency} = \eta \approx (V_{DC})^2 / (V_{i rms})^2$$

$$\text{Regulation } \% \text{ Regulation} = \frac{V_{NL} - V_{FL}}{V_{FL}} \times 100$$

Note: repeat the same procedure of HWR for calculating Regulation .

PROCEDURE:

1. Connections are made as shown in the circuit diagram
2. Switch on the AC power supply
3. Observe the wave form on CRO across the load resistor and measure the o/p amplitude and frequency.
4. Note down R_L , I_{DC} , V_{ODC} , V_{iAC} , V_{OAC} in the tabular column for different load resistances.
5. Calculate the ripple and efficiency and regulation for each load resistance.
6. Repeat the above procedure with filter capacitor.

TABULAR COLUMN:

Sl. No.	R_L	I_{DC}	V_O (DC)	V_{iN} (AC)	V_O (AC)	Ripple	Efficiency	Regulation

(Without filter) Ripple = $r_{theoretical} = 0.48$ $r_{practical} = \underline{\hspace{2cm}}$

(With Filter) $r_{theoretical} = 1 / (4\sqrt{3} f C R_L) = 0.06$ for $C = 470\mu\text{F}$, $r_{practical} = \underline{\hspace{2cm}}$

Ripple factor = $r_{practical} = V_{orms} / V_{DC}$

Efficiency = $\eta_{theoretical} = 81.2\%$ $\eta_{practical} \approx (V_{DC})^2 / (V_{i rms})^2$

Regulation = $\% \text{ Regulation} = \frac{V_{NL} - V_{FL}}{V_{FL}} \times 100$

Where V_{NL} = no load voltage = voltage across output by removing load resistance.

V_{FL} = Full load voltage = Voltage across output with load resistance.

Aec Lab Manual Vtu 3rd Semester

John M. Jeffords



Aec Lab Manual Vtu 3rd Semester:

Lab Manual for Electronic Devices, Global Edition THOMAS L. FLOYD, 2018-06-19 This laboratory manual is carefully coordinated to the text *Electronic Devices Tenth edition Global edition* by Thomas L Floyd. The seventeen experiments correspond to the chapters in the text except the first experiment references Chapters 1 and the first part of Chapter 2. All of the experiments are subdivided into two or three Parts. With one exception, Experiment 12 B, the Parts for the all experiments are completely independent of each other. The instructor can assign any or all Parts of these experiments and in any order. This format provides flexibility depending on the schedule, laboratory time available, and course objectives. In addition, experiments 12 through 16 provide two options for experiments. These five experiments are divided into two major sections identified as A or B. The A experiments continue with the format of previous experiments; they are constructed with discrete components on standard protoboards as used in most electronic teaching laboratories. The A experiments can be assigned in programs where traditional devices are emphasized. Each B experiment has a similar format to the corresponding A experiment but uses a programmable Analog Signal Processor (ASP) that is controlled by free Computer Aided Design (CAD) software from the Anadigm company (www.anadigm.com). These experiments support the Programmable Analog Design feature in the textbook. The B experiments are also subdivided into independent Parts, but Experiment 12 B Part 1 is a software tutorial and should be performed before any other B experiments. This is an excellent way to introduce the ASP technology because no other hardware is required other than a computer running the downloaded software. In addition to Experiment 12 B, the first 13 steps of Experiment 15 B Part 2 are also tutorial in nature for the AnadigmFilter program. This is an amazing active filter design tool that is easy to learn and is included with the AnadigmDesigner2 AD2 CAD software. The ASP is part of a Programmable Analog Module (PAM) circuit board from the Servenger company (www.servenger.com) that interfaces to a personal computer. The PAM is controlled by the AD2 CAD software from the Anadigm company website. Except for Experiment 12 B Part 1, it is assumed that the PAM is connected to the PC and AnadigmDesigner2 is running. Experiment 16 B Part 3 also requires a spreadsheet program such as Microsoft Excel. The PAM is described in detail in the Quick Start Guide Appendix B. Instructors may choose to mix A and B experiments with no loss in continuity depending on course objectives and time. We recommend that Experiment 12 B Part 1 be assigned if you want students to have an introduction to the ASP without requiring a hardware purchase. A text feature is the Device Application (DA) at the end of most chapters. All of the DAs have a related laboratory exercise using a similar circuit that is sometimes simplified to make laboratory time as efficient as possible. The same text icon identifies the related DA exercise in the lab manual. One issue is the trend of industry to smaller surface mount devices which are very difficult to work with and are not practical for most lab work. For example, almost all varactors are supplied as surface mount devices now. In reviewing each experiment, we have found components that can illustrate the device function with a traditional one. The traditional through-hole MV2109 varactor

is listed as obsolete but will be available for the foreseeable future from Electronix Express www.elexp.com so it is called out in Experiment 3 All components are available from Electronix Express www.elexp.com as a kit of parts see list in Appendix A The format for each experiment has not changed from the last edition and is as follows Introduction A brief discussion about the experiment and comments about each of the independent Parts that follow Reading Reading assignment in the Floyd text related to the experiment Key Objectives A statement specific to each Part of the experiment of what the student should be able to do Components Needed A list components and small items required for each Part but not including the equipment found at a typical lab station Particular care has been exercised to select materials that are readily available and reusable keeping cost at a minimum Parts There are two or three independent parts to each experiment Needed tables graphs and figures are positioned close to the first referenced location to avoid confusion Step numbering starts fresh with each Part but figures and tables are numbered sequentially for the entire experiment to avoid multiple figures with the same number Conclusion At the end of each Part space is provided for a written conclusion Questions Each Part includes several questions that require the student to draw upon the laboratory work and check his or her understanding of the concepts Troubleshooting questions are frequently presented Multisim Simulation At the end of each A experiment except 1 one or more circuits are simulated in a Multisim computer simulation New Multisim troubleshooting problems have been added to this edition Multisim troubleshooting files are identified with the suffix f1 f2 etc in the file name standing for fault1 fault2 etc Other files with nf as the suffix include demonstrations or practice using instruments such as the Bode Plotter and the Spectrum Analyzer A special icon is shown with all figures that are related to the Multisim simulation Multisim files are found on the website www.pearsonglobaledition.com Floyd Microsoft PowerPoint slides are available at no cost to instructors for all experiments The slides reinforce the experiments with troubleshooting questions and a related problem and are available on the instructor s resource site Each laboratory station should contain a dual variable regulated power supply a function generator a multimeter and a dual channel oscilloscope A list of all required materials is given in Appendix A along with information on acquiring the PAM As mentioned components are also available as a kit from Electronix Express the kit number is 32DBEDFL10

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 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 polarization 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 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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