EXPERIMENT 1

Aim: Introduction to Power supply & Multimeter.

Theory:

DC Power Supply:

It is easy to use, low power, multi output general purpose laboratory supply (Figure 1.1). It is suitable for experimental set-ups, circuit development and low voltage applications. The power supply delivers three dc outputs:

- 0-32V dc output, continuously variable, with 2 Amps capacity. This section is provided with panel meters to monitor output voltage and current separately.
- 5V preset de output with 5Amps capacity. A built-in over voltage protection circuit offers protection to the loads against over voltage.
- ±15V preset dc output with 500mA capacity.

All the outputs are floating (i.e. neither any of + ve or - ve output terminals nor any point within the regulator circuitry is connected to ground). The power supply is designed to operate satisfactorily in ambient temperature of up to 50°C and full power can be drawn if free air circulation is allowed. The unit works on main supply of 230V ac at 50 Hz.



Figure 1.1: Power Supply

Regulated Power Supply - Working, Circuit Diagram and Applications

We know that there are different types of electrical & electronic circuits which use a DC power supply. Universally, we cannot use the DC batteries due to expensive as well as require replacement when discharged. In this situation, we require a circuit which can change AC supply to DC supply. A rectifier filter circuit includes a normal DC power supply. The normal DC power supply o/p remains stable if the load is constant. Although in several electronic circuits it is extremely significant to maintain the DC power supply constant irrespective of alternative AC supply. Otherwise, the circuit will get damage. To overcome this problem, voltage regulating devices can be used. So, the blend of the voltage regulating devices by the normal dc power supply is named as DC regulated power supply. This is an electrical device, used to generate the steady DC supply irrespective of alternative AC supply.

Ec 1 Ec2205 Lab Manual

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Lab Manual for Introduction to Electronics Peter Basis, Fabio Freschi, Massimo Mitolo, 2013-08-08 This is a student supplement associated with Introduction to Electronics A Basic Approach 1 e Peter Basis ISBN 0132770229 Lab Manual 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 **Integrated Science Course 1**,2005* number is 32DBEDFL10 **Industrial Electronics** Paul B. Zbar, Peter Orne.1972-01-01 Laboratory Manual for Electronic Devices and Circuits David A. Bell, 2001 This lab manual California Four-in-one Lab Manual Glencoe/McGraw-Hill,2006* accompanies Electronic Devices and Circuits 4 e

Electronic Technician Apprentice Year 1 Lab Manual Wayne M. Hope,2001 ES 402 : Electrical Engineering Lab Manual Wayne M. Hope,2000 ELEX 1105 Lab Manual ,2011 Lab Manual (Buchla) David M. Buchla,1998-05-26 Industrial Electronics Paul Bernard Zbar,1962 Electronics Laboratory Manual--1, 2 New

Jersey. Division of Vocational Education, William Geitzenauer, 1971 **Laboratory Manual. Stage 1** Kevin Harris, New South **Lab Manual for Electronic Communications** Jeffrey S. Beasley, Mark E. Oliver, Jonathan D. Publishing, 1984-01 Hymer, David Shores, Gary M. Miller, 2013-06-24 This is a student supplement associated with Electronic Communications A System Approach 1 e Jeffrey S Beasley Jonathan D Hymer Gary M Miller ISBN 0132988631 Electronic Devices Gabriel Oltean, Mihaela-Laura Gordan, Costin Miron (inginer.), 2004 General Chemistry I SCC201 Lab Manual Dionne ECE 311 and ECE 316 Lab Manual Wayne M. Hope, 1999 Miller.2015-03-02 **Instructor's quide for** The Complete Laboratory Manual for Electricity **electricity-electronics fundamentals** Paul Bernard Zbar,1977 Stephen L. Herman, 2004-12 The Complete Laboratory Manual for Electricity 2E is the ultimate preparation resource for any curriculum dedicated to training electricians From basic electricity through AC theory transformers and motor controls all aspects of a typical electrical curriculum are explored in a single volume Hands on experiments that acquaint students with the theory and application of electrical concepts offer valuable experience in constructing a multitude of circuits such as series parallel combination RL series and parallel RC series and parallel and RLC series and parallel circuits Each lab features an explanation of the circuit to be connected with examples of the calculations necessary to complete the exercise and step by step procedures for conducting the experiment Labs use generic equipment and devices commonly found in most hardware stores and electrical supply houses and a materials list details the components necessary to perform all of the exercises

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