

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 dc 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 Lab Manuals

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Engineering Practices Lab Manual - 5Th E T Jeyapoovan Nadar, Engineering Practices Lab Manual covers all the basic engineering lab practices in the Civil Mechanical Electrical and Electronics areas The manual details the various tools to be used and exercises to be practiced in the application of engineering practices in each field

Nielsen's Food

Analysis Laboratory Manual B. Pam Ismail,S. Suzanne Nielsen,2024-06-20 This fourth edition laboratory manual was written to accompany Nielsen's Food Analysis Sixth Edition by the same authors New to this fourth edition of the laboratory manual are three new chapters that complement both the textbook chapters and the laboratory exercises The book again contains four introductory chapters that help prepare students for doing food analysis laboratory exercises The 26 laboratory exercises in the manual cover 24 of the 35 chapters in the textbook Many of the laboratory exercises have multiple sections to cover several methods of analysis for a particular food component or characteristic Most of the laboratory exercises include the following background reading assignment objective principle of method chemicals reagents precautions and waste disposal supplies equipment procedure data and calculations questions and references This laboratory manual is ideal for the laboratory portion of undergraduate courses in food analysis

Indexes to the Oak Ridge National Laboratory Master Analytical Manual Oak Ridge National Laboratory,1965

2012 Comprehensive Accreditation Manual for Laboratory and Point-Of-Care Testing (Camlab) Jcr,2012

Soil Survey Field and Laboratory Methods Manual - Soil Survey Investigations Report No. 51 (Version 2) Issued 2014

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Laboratory Manual for the Course in Beginning Quantitative Analysis Hobart Hurd Willard,1920

The United States Catalog ,1906

A Manual of Clinical Laboratory Methods Clyde Lottridge Cummer,1922

Electronics Laboratory Manual Ralph Ross Wright,1945

Acccounting Laboratory Manual William Samuel Krebs,1924

Laboratory Manual for Fundamentals of Radio ... C. W. Caldwell,1942

The Investor's Monthly Manual ,1885

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