

## Laboratory Experiment 2 The Series Circuit

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### Laboratory Experiment 2 The Series

Laboratory Experiment #2, The Series Circuit Patrick Hoppe, 02/17/02 The purpose of this experiment is to investigate the relationship between voltage, resistance, and current as described by Ohm's law. The DC analysis of a series resistance circuit should support Ohm's Law and the formula for total resistance in a series circuit.

### Laboratory Experiment #2, The Series Circuit

Experiment 2 Resistors in Series and Parallel Connections (1) Purpose: The purpose of the lab is to investigate the relationship between current and voltage in Ohmic materials and the characteristics of resistors in series and parallel. In addition, the purpose of the lab is to learn how to use DMM (digital multimeter) to measure resistance, dc voltage, and dc current.

### Lab 2 - Experiment 2 Resistors in Series and Parallel ...

Experiment Series 2 - Diodes 2 Diodes 2 Prelab Assignment. ... Plot I-V curves of these LEDs and the I-V curve of one diode measured in LAB 1 in the same graph. ... ideality factor, and when possible equivalent series and shunt resistances from measurements 1. The values of the parameters must be clearly related to the graphs of the data and ...

### ECE 494 - ParB Semiconductor Devices - Experiment Series 2 ...

CIRCUITS LABORATORY EXPERIMENT 2 The Oscilloscope and Transient Analysis 2.1 Introduction In the first experiment, the utility of the DMM to measure many simple DC quantities was demonstrated. However, in the vast majority of electrical circuits having practical use, the quantities of interest vary with time. While the DMM can be used

### CIRCUITS LABORATORY EXPERIMENT 2

Experiment 2 - resistors in series and parallel connections (1) Lab Date - 7/6/17 Report Date - 7/11/17 Inderjit Kaur PHY2049L - Section 8 Lab instructor - Udeni Purpose: The purpose of this experiment is to learn how to use a digital multimeter to obtain measurements for voltage, current, and resistance and how to set up resistors in series and parallel connections.

### Experiment 2.docx - Experiment 2 resistors in series and ...

EE 448 Laboratory Experiment 4 Introduction to DC Motors 2 I. INTRODUCTION The purpose of this experiment is to examine the construction of a DC motor/generator, to learn the basic motor wiring connections, and to study the performance characteristics of a shunt and series dc motor.

INSTRUMENTS AND COMPONENTS:

### EE 448 Lab Experiment No. 4 - Iowa State University

DC circuits analysis laboratory 2011 -2012 Experiment NO.3 Series and parallel connection Object To study the properties of series and parallel connection. Apparatus 1. DC circuit training system 2. Set of wires. 3. DC Power supply 4. Digital A.V.O. meter Theory 1. The Series Circuit

## Experiment NO.3 Series and parallel connection

Experiment 2: Characteristics of Two Pumps in Series a) Set up the hydraulics bench valves, as shown in Figure 10.9, to perform the two pumps in series test. b) Start pumps 1 and 2, and increase the speed until the pumps are operating at 60 rev/sec. c) Turn the bench regulating valve to the fully closed position.

## Experiment #10: Pumps - Applied Fluid Mechanics Lab Manual

Experiment 2016-1 Perborate synthesis Experiment 2016-2 Computer Laboratory on Symmetry elements and operations Experiment 1: Preparation of some chromium(III) complexes, either: 1)  $[\text{Cr}(\text{en})_3]\text{Cl}_3$  and  $\text{K}[\text{CrEDTA}(\text{H}_2\text{O})_2]$  2)  $[\text{Cr}(\text{urea})_6]\text{Cl}_3$  and  $\text{K}_3[\text{Cr}(\text{NCS})_6]$  or 3)  $\text{cis-}[\text{CrCl}_2(\text{en})_2]\text{Cl} \cdot 1.5 \text{H}_2\text{O}$  and  $\text{cis-K}[\text{Cr}(\text{ox})_2(\text{H}_2\text{O})_2] \cdot 2\text{H}_2\text{O}$  The final reports should include the Vis and IR spectroscopic ...

## CHEM2111 Laboratory Experiments

Experiment 7 Series DC Motor (I) 0405344: Electrical Machines for Mechatronics Laboratory 7 - 2 The flux in this machine is directly proportional to its armature current (at least until the metal saturation). Therefore, the flux in the machine can be given by  $\phi = cI_A$  (7.3) Where  $c$  is a constant of proportionality. The induced torque in this ...

## Experiment 7 Series DC Motor (I)

Experiment #2: Density; Part 1 and Part 2 5 5 Video: The Volumetric Pipette Experiment #2: Density; Part 3 10 Experiment #3: Determination of the Empirical Formula of a Compound 10 Experiment #4: Table Salt from Baking Soda 10

## Applied Chemistry Chemistry 101 Laboratory Manual

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## (PDF) Experiment 2 Lab Manual | Neaj Mahmud - Academia.edu

Experiment 2. Resistors in Series and Parallel Connections. PHY2049L. Purpose: Through the use of a DMM (digital multimeter), examine the relationship of current, voltage, and resistance. Test Ohm's Law through the construction of series and parallel circuits. with resistors.

## Lab 2: Resistors in Series and Parallel Connections - FAU ...

$V_{\text{source}}(t) = \sqrt{V_R^2 + (V_L - V_C)^2}$  (4b) You can see that according to the equations and the diagram that these voltages "rotate" with the alternating current. The angle of this "rotation" is called the phase angle. The phase angle in each of the above expressions and in the phasor diagram (Fig 2) indicates that:

## General Physics Experiment 7 - Andrews University

PHYS 1493/1494/2699: Exp. 7 - Spectrum of the Hydrogen Atom 2 Introduction The physics behind: The spectrum of light The empirical Balmer series for Hydrogen The Bohr model (a taste of Quantum Mechanics) Brief review of diffraction The experiment: How to use the spectrometer and read the Vernier scale Part 1: Analysis of the Helium (He) spectrum

## Experiment 7: Spectrum of the Hydrogen Atom

as a (2) series resistor  $R$  and inductor  $L$  circuit. In both cases, it was simpler for the actual experiment to replace the battery and switch with a signal generator producing a square wave.

## 11. The Series RLC Resonance Circuit

Objective The objective of this laboratory experiment is to analyze a series circuit in respect to its components and characteristics. We will use a multi-meter to measure the voltage ( $V$ ), resistance ( $R$ ), and current ( $I$ ) of said series circuit and use the collected data to determine how a series circuit functions.

## EMT 1150 LAB | Professor Aparicio Carranza Electrical Circuits

EELE 250 Laboratory No. 2, Parallel and Series Resistors Page 2 of 2 3) Disconnect one of the terminals of the resistor  $R_4$  in the circuit shown in Fig. 2.1, and repeat the measurements you did in (2). Present the results of your home calculations and the experiments (2) and (3) in Table 2.2. Table 2.2: Parallel Circuit Calculations and Measurements

### **EELE 250 Laboratory No. 2, Parallel and Series Resistors ...**

Experiment 2: Oscillation and Damping in the LRC Circuit Introduction In this laboratory you will construct an LRC series circuit and apply a constant voltage over it.

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