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**EXPERIMENT 7:
KIRCHHOFF'S RULES**

INTRODUCTION

- Kirchhoff's current rule defines the way that electrical current is distributed when it is applied to a junction in a circuit - a point in the circuit where charge has several possible paths to travel.
- Once charge has entered into the junction, it has no place to go except to leave (this is known as conservation of charge). The total charge flowing into a junction must be the same as the total charge flowing out of the junction.
- Kirchhoff's Laws allows us to analyse more complex circuits, which are not composed exclusively of parallel or series circuits.

Table 7.1

Resistance, Ω	Voltage, volts	Current, mA
R_1 205	V_1 0.75	I_1 3.66 mA
R_2 205	V_2 0.75	I_2 3.66 mA
R_3 205	V_3 0.75	I_3 2.66 mA
R_4 205	V_4 0.75	I_4 3.66 mA
R_5 165	V_5 0	I_5 0
R_6 327	V_6 1.5	I_6 4.59 mA

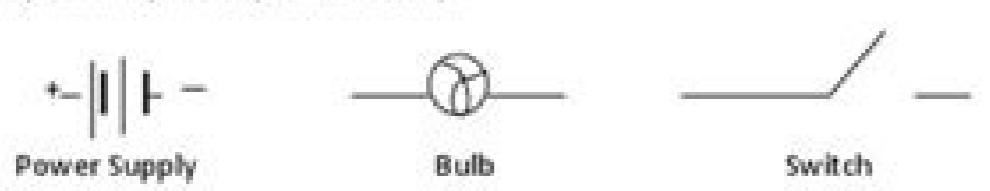
Figure 7.2: A circuit diagram showing a network of resistors (R_1 through R_6) and a voltage source (V_1). The circuit is a bridge-like structure with a central branch.

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OHM'S LAW

INTRODUCTION

The first part of the experiment uses the concept of elementary direct circuits to help demonstrate Ohm's law. First, it is critical to understand how to read schematic diagrams. The three most important symbols (shown below):



Ohm's Law is the relationship between the current I flowing through resistance, R and the potential drop across it V . Ohm's Law states the voltage or electric potential in direction proportional to the product of the current and the resistance where current is in Amps (A), voltage in volts (v), and resistance in Ohms (Ω). Therefore, the relationship: voltage (v) \propto current (A) \times resistance (Ω) expresses Ohm's law (shown below).

$$I = \frac{V}{R} \quad V = I \times R \quad R = \frac{V}{I}$$

Using this concept, part I of the experiment demonstrates the basics behind DC circuits both in the configurations of simple series and parallel circuits. Using these simple elements, the experiment develops enough of the conceptual understanding of DC circuits to make predictions about the variations presents among different circuits.

CR9 Q: DRAW CIRCUIT DIAGRAMS FOR HW PROBLEMS P420 SHOWING ALL INFORMATION GIVEN AND REQUESTED.

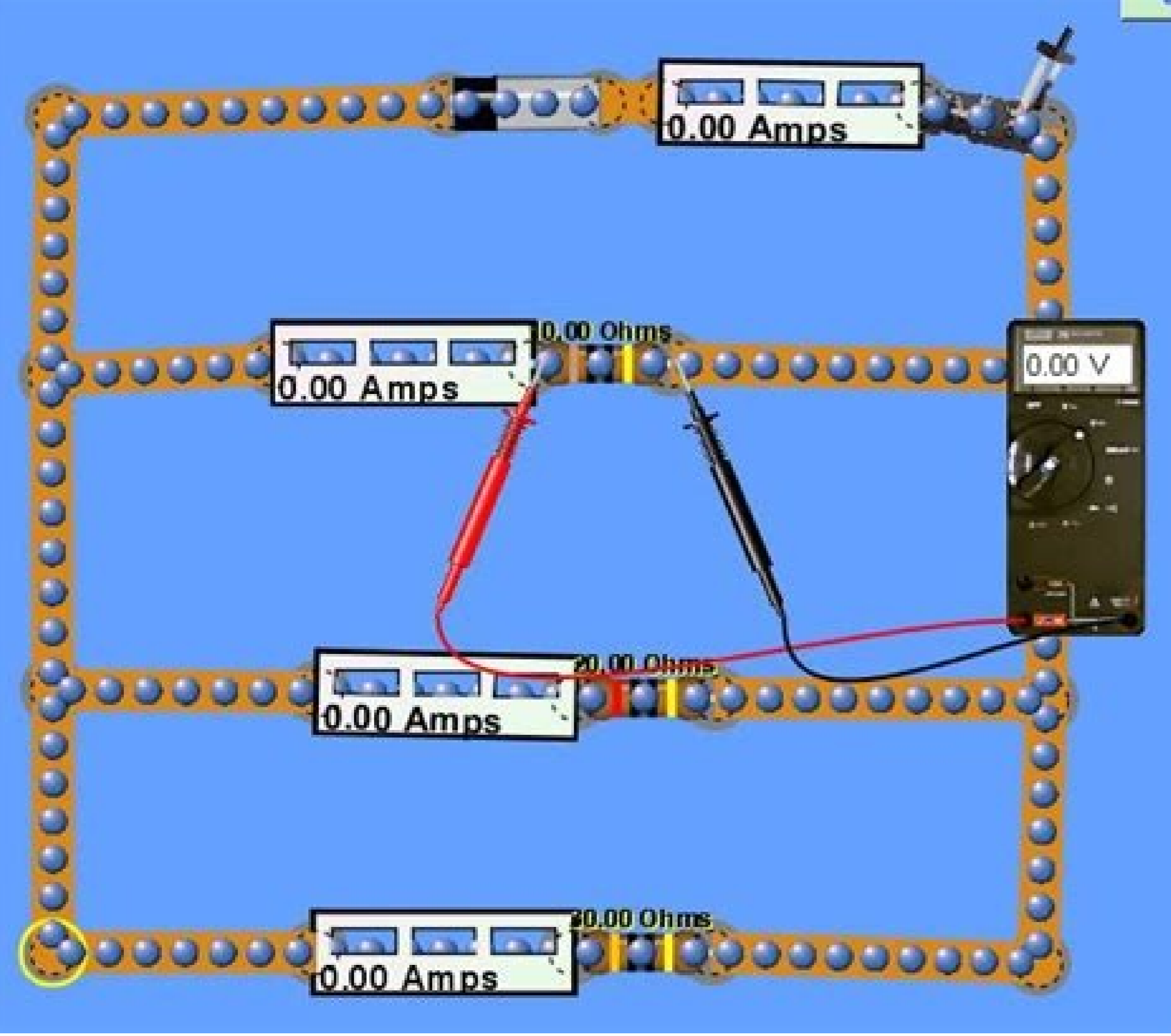
HW19-20
 ASSESS
 K1(KIRCHHOFF'S) SERIES OR PARALLEL CIRCUITS
 K2(CURRENT DIVISION) - CURRENT DIVIDES AT BRANCHES AND JOINS AT JUNCTIONS

SERIES CIRCUITS VS. PARALLEL CIRCUITS
 VOLTAGE DIVIDED EQUALLY THROUGHOUT
 $V_T = V_1 + V_2 + V_3 + \dots$ (Ohm's Law)
 EACH BRANCH GETS FULL VOLTAGE
 $V_T = V_1 = V_2 = V_3 = \dots$
 EACH BRANCH GETS FULL CURRENT
 $I_T = I_1 = I_2 = I_3 = \dots$
 RESISTANCES ADD UP
 $R_T = R_1 + R_2 + R_3 + \dots$
 CURRENT DIVIDES AS PERCENTAGES ARE ADDED
 TOTAL CURRENT INCREASES AS PERCENTAGES ARE ADDED

PARALLEL CIRCUITS
 EACH BRANCH GETS FULL VOLTAGE
 $V_T = V_1 = V_2 = V_3 = \dots$
 CURRENT DIVIDES EQUALLY PERCENTAGES
 $I_T = I_1 + I_2 + I_3 + \dots$
 TOTAL RESISTANCE DECREASES AS PERCENTAGES ARE ADDED
 $R_T = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \dots}$

A CIRCUIT OF UNKNOWN VOLTAGE SUPPLIES CURRENT TO 2 PARALLEL CIRCUIT PATHS. THE FIRST PATH HAS A SINGLE 3 OHM RESISTOR AND THE SECOND PATH HAS 2 OHMS IN SERIES WITH AN UNKNOWN RESISTOR. AND MEASUREMENTS FROM THE UNKNOWN RESISTOR FOR I_1 AND R_2 .

$I_T = 4A$
 $I_1 = 1A$
 $I_2 = 3A$
 $R_1 = 3\Omega$
 $R_2 = ?$
 $V_T = 6V$



More from donandswered.net The experiment of Kirchhoff's Kirchhoff's circuit laws, on 6 April 6 April, 2020 Denise Harris McMurrian Abstract The purpose of this experiment was to verify the laws of Kirchhoff. Touch your leads on Point C and and, this is your i_2 value. It is also known as a step-down converter. As indicated above, since a current passes through a junction point, the sum of the current entry must finally connect the card together using the connection wires and alligator clips to connect to the power supply: Procedure A to start this Part of the experiment, first of all, set the digital multimeter to measure the voltage. Data table 1: Measured resistance values $R1: 100 \Omega$, $R2: 330 \Omega$, $R3: 100 \Omega$, $R4: 330 \Omega$, $R5: 1000 \Omega$, $R9: 327 \Omega$, $R10: 326 \Omega$, $R11: 1000 \Omega$, $R12: 1000 \Omega$, $R13: 1000 \Omega$. Table 2: Experimental DC Tensions and Currents $V_0 (V)$, $V_B (V)$, $V_C (V)$, $V_D (V)$, $V_E (V)$, $V_F (V)$, $V_G (V)$, $V_H (V)$, $V_I (V)$, $V_J (V)$, $V_K (V)$, $V_L (V)$, $V_M (V)$, $V_N (V)$, $V_O (V)$, $V_P (V)$, $V_Q (V)$, $V_R (V)$, $V_S (V)$, $V_T (V)$, $V_U (V)$, $V_V (V)$, $V_W (V)$, $V_X (V)$, $V_Y (V)$, $V_Z (V)$. Depending on the type, it is also possible to see it as a linear or switching regulator. Therefore, it is therefore similar to the type of Boost Buck converter, but it is more suitable for a number of specialist applications. Here is a rapid introduction. What are the DC-DC converters? DC-DC converters efficiently convert a CC voltage to another. For example, helping to adjust a tension from a poorly controlled source. It is also able to produce a voltage equal to the input voltage. The junction law states that when a parallel path is traveled, the total current entering the crossing of a circuit is equal to the total current leaving the junction; This is due to the fact that the current is the rate of the charge and charge flow is always preserved, therefore, the current scrolls must lay the current that flows: $\sum I_{in} = \sum I_{out}$. equation 1 Junction law: $\sum I_{in} = 0$ or $\sum I_{out} = 0$ = sum of current or current of the loop states that the sum of the whole around around a closed loop must equal 0. Operating at a much higher frequency, it tends to produce less noise. I 3 : A_2A48 . By building our own circuits we were able to test whether the current flowing through a junction point is 0 at all times and if the sum of the voltage drop when it travels around any closed loop is equal to 0. Repeat this step two more times, touching the red lead to Point F, this is point VF, then to a point between Point D and G and this is point VD. Introduction Kirchhoff's laws are important in describing the transfer of energy through electrical circuits; they give us a better understanding of the connections in the circuit, they quantify current flows, and they explain how voltage varies around a loop. I 2 : 30.330eAA30=18. Current 1 and 3 values. This high percent error could be due to factors that were not considered when making calculations, such as the internal resistance of the wires used to build the circuit, faulty machinery, or incorrect setup of the circuit; all of these errors could have caused much higher current values and aided in our percentage. I 2 : A_2A30 . It could also be used to produce a 5V USB output from a lithium battery, according to Digi-Key Buck-boost ConverterAs you might have guessed, a buck-boost converter does both. Not only does it provide a superior purity and efficiency of current than the other DC-DC converter types, it also has minimal overshoot, ringing and switching loss. To measure I_1 , replace the wire to C and E and remove the wire from A to F, replace with your leads and record these values into Table 2. You should make sure your buck converter's voltage ripple rating is suitable for your device or needs before use.Boost ConverterA boost, or step-up, converter effectively does the opposite of a buck converter. To test I 3, remove the wire between Point D and G and replace it with your leads, that's the value I 3. However, some specialist applications, such as integrated circuit, require precise voltage ranges. Percentage difference ($\% I_1$): 5.4518e'18 = 70. Our current value 2 verified that sum of the current entering the junction point is the same as the sum leaving the point. Calculations Theoretical Current Values (MA) I 1 : 6.7199A *4 = 18. Next installation of the 15 volt, 0 A power supply. Slide 2 Presentation Overview PDF Filepdf Icon or PPT Filept Icon Slide 3 Program Collaboration and Service Integration: Goal PDF Filepdf Icon or PPT Filept Icon Slide 4 Collaboration and Service Integration Program: Vision PDF Filepdf Icon or PPT Filept Icon Slide 5 Program Collaboration PDF Filepdf Icon or PPT Filept Icon Slide 6 Service Integration PDF Filepdf Icon or PPT Filept Icon Slide 7 Program Collaboration and Service Integration: PCSI is not PDF Filepdf Icon Slide 8 Program Collaboration and Service Integration: PCSI is not PDF Filepdf Icon Slide 9 Program Collaboration and Service Integration: PCSI is not PDF Filepdf Icon Slide 10 Marma PCSI Points PDF Filepdf Icon or PPT Filept Icon Slide 11 Achievements and Plans: Funding and Program Announcements Icon Filepdf PDF or PPT Filept Icon Slide 12 Achievements and Plans: Integrated Monitoring PDF Filepdf Icon or PPT F ICON SLIDE 13 Achievements and Plans: Training PDF or PPT Filept icon Slipt 14 Achievements and Plans: Guide / Program Recommendations PDF Filepdf Icon or PPT Filept Icon Slide 15 Selections and Plans: Guide / Recommendation Recommendation Icon PDF Filepdf Icon or PPT Filept Icon Slide 16 Results and Plans: Guide / Program Recommendations PDF Filepdf Icon or PPT Filept Icon Slipt 17 Achievements and Plans: Communications PDF Filepdf Icon or PPT Filept Icon Slide 18 Selections and Plans: Communications PDF Filepdf Icon or PPT Filept Icon Slide 19 PDF Communications. 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----- So, touch the black wire at any point on the board, and record it for the value V_0 . It can be used to charge a 4.2V battery from a 5V USB source, says Digi-Key. Then what do you need it for? They use high-frequency switching, inductors, transformers and capacitors to do this. A buck converter produces a lower voltage by lowering the input voltage. It could therefore be useful to power LEDs from a lithium battery. A buck-boost converter could be used to stabilize a battery voltage of 1.2V, which the Digi-Key notes can vary from 1.0 to 14.7V. Using Ohm's law, calculate the theoretical values of I_1 and I_2 . $I_2: 14.98327e A/4=30$. Theoretical matrix of direct current (mA) used $I_1: A_2A18$. There are four types of DC-DC converters, which can be insulated from the ground, test the experimental values of I_1 and I_2 , replace the wire between D and G and remove the wire between C and E. Use Kirchhoff's law at the relationship between current (I) and voltage (V) was established using the equations $\sum A @ A_{III} = 0$ and $\sum A @ A_{III} = 0$; these equations helped our understanding of the difference between Kirchhoff's junction and loop laws, which is important for understanding the transfer of energy through electrical circuits, converts the input voltage to a higher output voltage; in other words, it increases the tension. This type of converter could also be used to power an LED from a single cell. SEPIC converters also increase or decrease the voltage and may also produce an input voltage equal to the input. Most electrical appliances and devices are semiconductors that can only work with DC power. A capable of increasing or lowering the voltage, and you could also see that A called a boost-buck converter. instead.

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