

Circuit Builder – Voltage Drops

Goal: To analyze circuits in order to discover some patterns regarding voltage drops.

Getting Ready: Open your browser and go to:

<http://www.physicsclassroom.com/Physics-Interactives/Electric-Circuits/Circuit-Builder>

Build, Measure, Analyze:

Use the tools (at the bottom of the screen) to build the circuit below. You need a battery, two bulbs, and two ammeters. Position them as shown.

To build a circuit, click on a bulb, resistor, wire or ammeter (the rectangular box) and click in the workspace where you wish it to be located. When the circuit has been completed, charges should flow and the bulbs should light.

Circuit 1

1. Use red, blue, and yellow markers to color the three wires in the diagram according to their electric pressure. We will refer to locations around the circuit using their designated colors.
2. Set the **voltage of the battery** to 12 Volts. (Tap the Modify icon. Then tap on the battery and use the arrows to increase/decrease the voltage to 12 V.)
3. Set the **resistance** of Bulb 1 to $3\ \Omega$ and the resistance of Bulb 2 to $3\ \Omega$. (Tap the Modify icon. Then tap on a bulb and use the arrows to increase/decrease the resistance values.)
4. Electric pressure (i.e., voltage) values for each wire are listed inside circles on the wire. Record the electric pressure values for the red, blue, and yellow wires.

$V_{\text{red}} = \underline{\hspace{2cm}}$ Volts

$V_{\text{yellow}} = \underline{\hspace{2cm}}$ Volts

$V_{\text{blue}} = \underline{\hspace{2cm}}$ Volts

5. Observe that there is a difference in color (i.e., electric pressure) on opposite sides of **Bulb 1**. The same is true for **Bulb 2**. We refer to this as a **voltage drop** since the values of voltage undergo a downward change (drop) as charge passes through the bulbs. Use the values in Q#4 to calculate the voltage drops (ΔV) for the two bulbs.

$\Delta V_{\text{Bulb 1}} = \underline{\hspace{2cm}}$ Volts

$\Delta V_{\text{Bulb 2}} = \underline{\hspace{2cm}}$ Volts

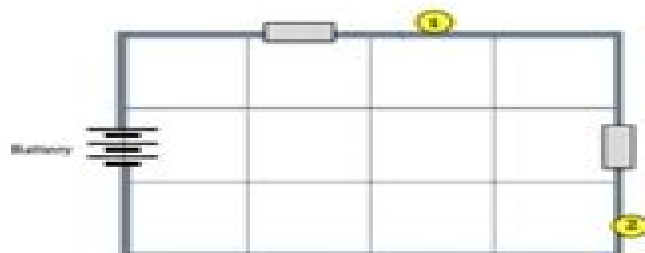
6. The current values are listed inside the ammeter boxes for each wire. Observe that the **current is the same in each wire**. The current is $\underline{\hspace{2cm}}$ A.
7. Use the current (Q#6) and the resistance (Q#3) values to calculate the $I \cdot R$ product for the two bulbs.

$I \cdot R_{\text{Bulb 1}} = \underline{\hspace{2cm}}$ A $\cdot\Omega$

$I \cdot R_{\text{Bulb 2}} = \underline{\hspace{2cm}}$ A $\cdot\Omega$

8. How does the $\Delta V_{\text{Bulb 1}}$ of Q#5 compare to the $I \cdot R_{\text{Bulb 1}}$ value of Q#7?

How does the $\Delta V_{\text{Bulb 2}}$ of Q#5 compare to the $I \cdot R_{\text{Bulb 2}}$ value of Q#7?



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Judd E. Hollander



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Handbook of Quality Integrated Circuit Manufacturing Robert Zorich, 2012-12-02 Here is a comprehensive practical guide to entire wafer fabrication process from A to Z Written by a practicing process engineer with years of experience this book provides a thorough introduction to the complex field of IC manufacturing including wafer area layout and design yield optimization just in time management systems statistical quality control fabrication equipment and its setup and cleanroom techniques In addition it contains a wealth of information on common process problems How to detect them how to confirm them and how to solve them Whether you are a new engineer or technician just entering the field a fabrication manager looking for ways to improve quality and production or someone who would just like to know more about IC manufacturing this is the book you re looking for Provides a readable practical overview of the entire wafer fabrication process for new engineers and those just entering this complex field Enables engineers and managers to improve production raise quality levels and solve problems that commonly occur in the fabrication process Presents the latest techniques and gives special attention to Japanese IC manufacturing techniques showing how they obtain outstanding quality

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to the difficulties of mastering the subject In a study of finite and discrete math REA found the following basic reasons underlying the inherent difficulties of finite and discrete math No systematic rules of analysis were ever developed to follow in a step by step manner to solve typically encountered problems This results from numerous different conditions and principles involved in a problem that leads to many possible different solution methods To prescribe a set of rules for each of the possible variations would involve an enormous number of additional steps making this task more burdensome than solving the problem directly due to the expectation of much trial and error Current textbooks normally explain a given principle in a few pages written by a finite and discrete math professional who has insight into the subject matter not shared by others These explanations are often written in an abstract manner that causes confusion as to the principle's use and application Explanations then are often not sufficiently detailed or extensive enough to make the reader aware of the wide range of applications and different aspects of the principle being studied The numerous possible variations of principles and their applications are usually not discussed and it is left to the reader to discover this while doing exercises Accordingly the average student is expected to rediscover that which has long been established and practiced but not always published or adequately explained The examples typically following the explanation of a topic are too few in number and too simple to enable the student to obtain a thorough grasp of the involved principles The explanations do not provide sufficient basis to solve problems that may be assigned for homework or given on examinations Poorly solved examples such as these can be presented in abbreviated form which leaves out much explanatory material between steps and as a result requires the reader to figure out the missing information This leaves the reader with an impression that the problems and even the subject are hard to learn completely the opposite of what an example is supposed to do Poor examples are often worded in a confusing or obscure way They might not state the nature of the problem or they present a solution which appears to have no direct relation to the problem These problems usually offer an overly general discussion never revealing how or what is to be solved Many examples do not include accompanying diagrams or graphs denying the reader the exposure necessary for drawing good diagrams and graphs Such practice only strengthens understanding by simplifying and organizing finite and discrete math processes Students can learn the subject only by doing the exercises themselves and reviewing them in class obtaining experience in applying the principles with their different ramifications In doing the exercises by themselves students find that they are required to devote considerable more time to finite and discrete math than to other subjects because they are uncertain with regard to the selection and application of the theorems and principles involved It is also often necessary for students to discover those tricks not revealed in their texts or review books that make it possible to solve problems easily Students must usually resort to methods of trial and error to discover these tricks therefore finding out that they may sometimes spend several hours to solve a single problem When reviewing the exercises in classrooms instructors usually request students to take turns in writing solutions on the boards and explaining them to the class Students often find it

difficult to explain in a manner that holds the interest of the class and enables the remaining students to follow the material written on the boards The remaining students in the class are thus too occupied with copying the material off the boards to follow the professor's explanations This book is intended to aid students in finite and discrete math overcome the difficulties described by supplying detailed illustrations of the solution methods that are usually not apparent to students Solution methods are illustrated by problems that have been selected from those most often assigned for class work and given on examinations The problems are arranged in order of complexity to enable students to learn and understand a particular topic by reviewing the problems in sequence The problems are illustrated with detailed step by step explanations to save the students large amounts of time that is often needed to fill in the gaps that are usually found between steps of illustrations in textbooks or review outline books The staff of REA considers finite and discrete math a subject that is best learned by allowing students to view the methods of analysis and solution techniques This learning approach is similar to that practiced in various scientific laboratories particularly in the medical fields In using this book students may review and study the illustrated problems at their own pace students are not limited to the time such problems receive in the classroom When students want to look up a particular type of problem and solution they can readily locate it in the book by referring to the index that has been extensively prepared It is also possible to locate a particular type of problem by glancing at just the material within the boxed portions Each problem is numbered and surrounded by a heavy black border for speedy identification

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