

## Ohm's Law Experiment

### Objectives

To verify Ohm's Law and experimentally, verify the relationship between current, voltage and resistance in a circuit.

### Equipment

- Resistor Box
- DC power supply
- Voltmeter
- Ammeter

### Theory

A current is directly proportional to voltage. When a resistance is at stable, is consider to be following the Ohm's Law. The symbol for ohm or unit is  $\Omega$ , and this is representing the resistance. Now, in order to comprehend Ohm's Law is to imagine like a liquid circuit, we have our pump (battery; voltage), then it is flowing and meets it's resistance. This is the important part of Ohm's law and the resistance, is that if the resistance is bigger, then less water will flow back. Therefore, given voltage, and depending how big the resistance is, then it will depend how the current will flow through the resistance.

### Procedure

#### I. Variation of Current with Voltage when the resistance is constant.

1. First, set up the following circuit shown below, using a power supply, an ammeter (A), a voltmeter (V) and one  $1000\text{-}\Omega$  Resistor (R) from resistor box.
2. Then, let the instructor check the circuit.
3. Later, close the switch and read the voltage and current on the meters.
4. Next, vary the output voltage of the power supply from 0 to 12 V in the increment of 1.5 V and record the readings of the voltage V across the resistor and corresponding current I through the resistor in Table 1.
5. Repeat this procedure for  $1200\text{-}\Omega$  Resistor (R) from resistor box.
6. Then, do the graph of the voltage V (vertical axis) versus the electric current I (horizontal axis) for each resistor.
7. Next, calculate the percent error of the actual  $1000\text{-}\Omega$  Resistor (R) and the experimental  $1000\text{-}\Omega$  Resistor (R).
8. Finally, repeat step 6 and 7 but for  $1200\text{-}\Omega$  Resistor (R).

# Ohms Law Experiment Report Conclusion

**National Electric Light Association**



## **Ohms Law Experiment Report Conclusion:**

*The Content Of Science: A Constructive Approach To Its Teaching And Learning* Peter J. Fensham; Richard F. Gunstone; Richard T. White all of Monash University, Australia.,2012-11-12 A group of science educators with experience of being involved in curriculum development and in conducting extensive research on many aspects of teaching and learning science have combined their findings in this volume Each author has conducted research into his or her own area of science education and presents the implications of this research for a specific area of science teaching The experiences of members of the Monash Children s Science Group specifically three primary teachers and one biology teacher have also been included so as to present the voices of teachers for whom writing a personal account of their teaching is often an unappealing task

*The Content Of Science: A Constructivist Approach To Its Teaching And learning* Australia. Peter J. Fensham; Richard F. Gunstone; Richard T. White all of Monash University,2013-11-26 First published in 1994 Leading scholars in science education from eight countries on four continents and expert practising science teachers primary and secondary wrote about the teaching and learning of particular science content or skills and hence how different science content requires different sorts of teaching and learning Having shared the papers they then met to discuss them and subsequently revised them The result is a coherent set of chapters that share valuable insights about the teaching and learning of science Some chapters consider the detail of specific topics e g floating and sinking soil and chemical change some describe innovative procedures others provide powerful theory Together they provide a comprehensive analysis of constructivist learning and teaching implications

**Ball and Moore's Essential Physics for Radiographers** John L. Ball,Adrian D. Moore,Steve Turner,2012-10-11 Since its first edition in 1980 *Essential Physics forRadiographers* has earned an international reputation as a clear andstraightforward introduction to the physics of radiography Now inits fourth edition this book remains a core textbook for studentradiographers The authors have retained the pragmatic approach of earliereditions and continue to target the book particularly at thosestudents who find physics a difficult subject to grasp The fourthedition builds on the major revisions introduced in the thirdedition The content has been updated to reflect recent advances inimaging technology The chapter on Radiation Safety has beencompletely rewritten in the light of the latest changes in relevantlegislation and a re examination of the physical principlesunderpinning magnetic resonance imaging forms the basis of a newchapter Worked examples and calculations again feature strongly and the innovative and popular Maths Help File guides readersgently through the mathematical steps and concepts involved Thereference citations have been updated and now include

Internetresources *Linear Integrated Circuits* Theodore F. Bogart,1983 **Popular Science** ,1913-12 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better **Proceedings at the Convention** National Electric Light Association,1889 *The Electrical Engineer* ,1889

Proceedings National Electric Light Association,1883      **Electrical Engineer** ,1890      Choosing Not Choosing Sharon Cameron,1992 Although Emily Dickinson copied and bound her poems into manuscript notebooks in the century since her death her poems have been read as single lyrics with little or no regard for the context she created for them in her fascicles Choosing Not Choosing is the first book length consideration of the poems in their manuscript context Sharon Cameron demonstrates that to read the poems with attention to their placement in the fascicles is to observe scenes and subjects unfolding between and among poems rather than to think of them as isolated riddles enigmatic in both syntax and reference Thus Choosing Not Choosing illustrates that the contextual sense of Dickinson is not the canonical sense of Dickinson Considering the poems in the context of the fascicles Cameron argues that an essential refusal of choice pervades all aspects of Dickinson s poetry Because Dickinson never chose whether she wanted her poems read as single lyrics or in sequence nor is it clear where any fascicle text ends or even how in context a poem is bounded not choosing is a textual issue it is also a formal issue because Dickinson refused to chose among poetic variants it is a thematic issue and finally it is a philosophical one since what is produced by not choosing is a radical indifference to difference Extending the readings of Dickinson offered in her earlier book Lyric Time Cameron continues to enlarge our understanding of the work of this singular American poet

**Report of the ... Meeting** ,1877      **Report of the ... and ... Meetings of the British Association for the Advancement of Science** British Association for the Advancement of Science. Meeting,1877      Report of the ... Meeting of the British Association for the Advancement of Science British Association for the Advancement of Science,1877      *Report of the ... Meeting of the British Association for the Advancement of Science* British Association for the Advancement of Science. Meeting,1887      Report of the ... Meeting of the British Association for the Advancement of Science ,1887      The Telegraphic Journal and Electrical Review ,1883      *Report ... Of The British Association For The Advancement Of Science* ,1877      **Doing Difference Differently** Zhaozhe Wang,2024-08-15 Doing Difference Differently ethnographically recounts the stories of four Chinese international students navigating the complex socio academic environment of a North American institution for higher education Zhaozhe Wang traces the ecologically situated and distributed literacy practices of these individuals across rhetorical contexts both on and off campus and reconstructs the digitally networked spatiotemporally emerging rhetorically potent and ecologically afforded literacy worlds of Chinese international students Doing Difference Differently provides an in depth nuanced understanding of the multifaceted literate lives of this often marginalized cultural group highlighting their diverse aspirations personas communities challenges and strategies The book reconceptualizes the linguistic and cultural differences of Chinese international students as active processes of embracing performing resisting negotiating and redefining the identities that institutions impose on them through everyday literacy practices Wang offers an analytical heuristic for researchers and educators to better understand these students backgrounds and to more effectively and ethically support and advocate for them This case study critically engages broad and interconnected concepts that are

essential to educators collective understanding of Generation Z students brought up in cultural and educational contexts outside of the European American sphere This book appeals to scholars researchers teachers and administrators working in North American higher education and English speaking countries particularly those in the fields of writing studies second language studies applied linguistics multilingual education literacy studies and international education Educators across disciplines seeking to better understand the growing population of Chinese international students in North America will likewise benefit

**Report of the Annual Meeting** British Association for the Advancement of Science,1887      **The Electrical Review** ,1889

## Enjoying the Track of Term: An Emotional Symphony within **Ohms Law Experiment Report Conclusion**

In some sort of eaten by displays and the ceaseless chatter of instantaneous connection, the melodic splendor and emotional symphony created by the prepared term often disappear into the backdrop, eclipsed by the persistent noise and disruptions that permeate our lives. But, situated within the pages of **Ohms Law Experiment Report Conclusion** an enchanting fictional treasure overflowing with organic feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, that charming masterpiece conducts readers on a psychological journey, skillfully unraveling the hidden melodies and profound influence resonating within each carefully constructed phrase. Within the depths with this moving assessment, we shall investigate the book is main harmonies, analyze its enthralling publishing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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