

Investigating circuits with more than one source of e.m.f.

Introduction

In this practical activity you will be measuring the potential difference and current for each component in a circuit and using this to substantiate Kirchhoff's first and second laws. You should already be aware of the difference between e.m.f. and potential difference and have an understanding of internal resistance and how to determine this.

Aim

- To draw circuit diagrams and make circuits from circuit diagrams.
- To measure values within the circuit
- To observe whether Kirchhoff's laws are substantiated, within experimental uncertainty

Intended class time

- 45 to 60 minutes

Equipment (per group)

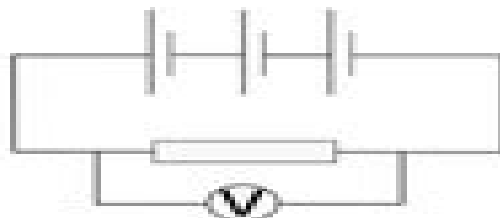
- 3 D standard cells in holders (not high power or high capacity cells)
- voltmeter
- ammeter
- multimeter, reading in milliamperes
- various resistors in the range 10Ω to 100Ω .

Health and safety

- Safe use of electrical circuits

Procedure

1. Determine the e.m.f. and internal resistance of one cell.
2. Determine the e.m.f. of three cells in series.



3. What do you predict the internal resistance of this arrangement of cells will be?
4. Determine if your prediction is correct.

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Table of Contents Ocr Physics 2013 A Level Paper

1. Understanding the eBook Ocr Physics 2013 A Level Paper
 - The Rise of Digital Reading Ocr Physics 2013 A Level Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Ocr Physics 2013 A Level Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ocr Physics 2013 A Level Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr Physics 2013 A Level Paper

- Personalized Recommendations
 - Ocr Physics 2013 A Level Paper User Reviews and Ratings
 - Ocr Physics 2013 A Level Paper and Bestseller Lists
5. Accessing Ocr Physics 2013 A Level Paper Free and Paid eBooks
 - Ocr Physics 2013 A Level Paper Public Domain eBooks
 - Ocr Physics 2013 A Level Paper eBook Subscription Services
 - Ocr Physics 2013 A Level Paper Budget-Friendly Options
 6. Navigating Ocr Physics 2013 A Level Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Ocr Physics 2013 A Level Paper Compatibility with Devices
 - Ocr Physics 2013 A Level Paper Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ocr Physics 2013 A Level Paper
 - Highlighting and Note-Taking Ocr Physics 2013 A Level Paper
 - Interactive Elements Ocr Physics 2013 A Level Paper
 8. Staying Engaged with Ocr Physics 2013 A Level Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ocr Physics 2013 A Level Paper
 9. Balancing eBooks and Physical Books Ocr Physics 2013 A Level Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ocr Physics 2013 A Level Paper
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Ocr Physics 2013 A Level Paper
 - Setting Reading Goals Ocr Physics 2013 A Level Paper
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Ocr Physics 2013 A Level Paper

- Fact-Checking eBook Content of Ocr Physics 2013 A Level Paper
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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