

Capacitors in series and parallel

Introduction

In this practical activity learners will use their knowledge of the combined capacitance of a number of capacitors to determine the capacitance of an unknown capacitor. This activity should follow the theory of capacitors in series and parallel and of exponential decay.

Aim

- To create a number of series and parallel configurations of capacitors
- To calculate the combined capacitance for each configuration
- To observe the change in time to discharge for differing configurations
- To collect data to allow the capacitance of an unknown capacitor to be determined.

Intended class time

- 60 to 90 minutes

Links to Specification

Physics A

- 6.1.1(c) total capacitance of two or more capacitors in series
- 6.1.1(d) total capacitance of two or more capacitors in parallel
- 6.1.1(e)(i) analysis of circuits containing capacitors, including resistors
- 6.1.2(a) p.d. – charge graph for a capacitor; energy stored is area under graph
- 6.1.2(b) energy stored by a capacitor
- 6.1.2(c) uses of capacitors as storage of energy
- 6.1.3(a)(i) charging and discharging capacitor through a resistor
- 6.1.3(b) time constant of a capacitor–resistor circuit: $\tau = CR$
- 6.1.3(c) equations of the form $x = x_0 e^{-\frac{t}{CR}}$ and $x = x_0 (1 - e^{-\frac{t}{CR}})$ for capacitor-resistor circuits.

Physics B

- 5.1.1(a)(i) capacitance as the ratio $C = \frac{Q}{V}$
- 5.1.1(ii) the energy on a capacitor $E = \frac{1}{2} QV$
- 5.1.1(a)(iii) the exponential form of the decay of charge on a capacitor as due to the rate of removal of charge being proportional to the charge remaining. $\frac{dQ}{dt} = -\frac{Q}{RC}$
- 5.1.1(b)(i) for a capacitor: the term: time constant τ
- 5.1.1(c)(i) solving equations of the form $\frac{dN}{dt} = -\lambda N$ by iterative numerical or graphical methods.

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Ellen Bowness, Sandy Gardner



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1. Understanding the eBook Ocr Physics Guide As
 - The Rise of Digital Reading Ocr Physics Guide As
 - Advantages of eBooks Over Traditional Books
2. Identifying Ocr Physics Guide As
 - 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 Guide As
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr Physics Guide As
 - Personalized Recommendations
 - Ocr Physics Guide As User Reviews and Ratings
 - Ocr Physics Guide As and Bestseller Lists
5. Accessing Ocr Physics Guide As Free and Paid eBooks
 - Ocr Physics Guide As Public Domain eBooks
 - Ocr Physics Guide As eBook Subscription Services
 - Ocr Physics Guide As Budget-Friendly Options

6. Navigating Ocr Physics Guide As eBook Formats
 - ePub, PDF, MOBI, and More
 - Ocr Physics Guide As Compatibility with Devices
 - Ocr Physics Guide As Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ocr Physics Guide As
 - Highlighting and Note-Taking Ocr Physics Guide As
 - Interactive Elements Ocr Physics Guide As
8. Staying Engaged with Ocr Physics Guide As
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ocr Physics Guide As
9. Balancing eBooks and Physical Books Ocr Physics Guide As
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ocr Physics Guide As
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ocr Physics Guide As
 - Setting Reading Goals Ocr Physics Guide As
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ocr Physics Guide As
 - Fact-Checking eBook Content of Ocr Physics Guide As
 - 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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