

## 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  $\tau$
- 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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## **Table of Contents Ocr Physics B June20paper G494**

1. Understanding the eBook Ocr Physics B June20paper G494
  - The Rise of Digital Reading Ocr Physics B June20paper G494
  - Advantages of eBooks Over Traditional Books
2. Identifying Ocr Physics B June20paper G494
  - 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 B June20paper G494
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr Physics B June20paper G494
  - Personalized Recommendations
  - Ocr Physics B June20paper G494 User Reviews and Ratings
  - Ocr Physics B June20paper G494 and Bestseller Lists
5. Accessing Ocr Physics B June20paper G494 Free and Paid eBooks
  - Ocr Physics B June20paper G494 Public Domain eBooks
  - Ocr Physics B June20paper G494 eBook Subscription Services
  - Ocr Physics B June20paper G494 Budget-Friendly Options
6. Navigating Ocr Physics B June20paper G494 eBook Formats

- ePub, PDF, MOBI, and More
- Ocr Physics B June20paper G494 Compatibility with Devices
- Ocr Physics B June20paper G494 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ocr Physics B June20paper G494
  - Highlighting and Note-Taking Ocr Physics B June20paper G494
  - Interactive Elements Ocr Physics B June20paper G494
- 8. Staying Engaged with Ocr Physics B June20paper G494
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ocr Physics B June20paper G494
- 9. Balancing eBooks and Physical Books Ocr Physics B June20paper G494
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ocr Physics B June20paper G494
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ocr Physics B June20paper G494
  - Setting Reading Goals Ocr Physics B June20paper G494
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ocr Physics B June20paper G494
  - Fact-Checking eBook Content of Ocr Physics B June20paper G494
  - 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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