

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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