

The power supply charges the capacitor to store energy

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Generated on: 2026-02-04 23:59:36

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A capacitor is a device for storing energy. When we connect a battery across the two plates of a capacitor, the current charges the capacitor, leading to ...

A charged capacitor stores energy in the electrical field between its plates. As the capacitor is being charged, the electrical field builds up. When a charged capacitor is disconnected from a ...

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As the capacitor is being charged, the electrical field builds up. When a charged capacitor is disconnected from a battery, its energy remains in the field in the space between ...

We can use this analogy to understand important aspects of capacitors: Charging up a capacitor stores potential energy, the same way a stretched membrane has elastic ...

Since like charges repel, it takes energy (provided by the power supply) to push more and more charges of the same type onto each plate during charging. This energy is then stored by the ...

When a voltage is applied across the plates, an electric field forms, causing charges to accumulate on the plates. The positive charges build up on one plate, while the ...

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Revision notes on Energy Stored by a Capacitor for the AQA A Level Physics syllabus, written by the Physics experts at Save My Exams.

Capacitors store energy in an electric field, crucial for various electronic applications. Capacitance and energy storage are governed by fundamental equations involving charge and voltage.

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