

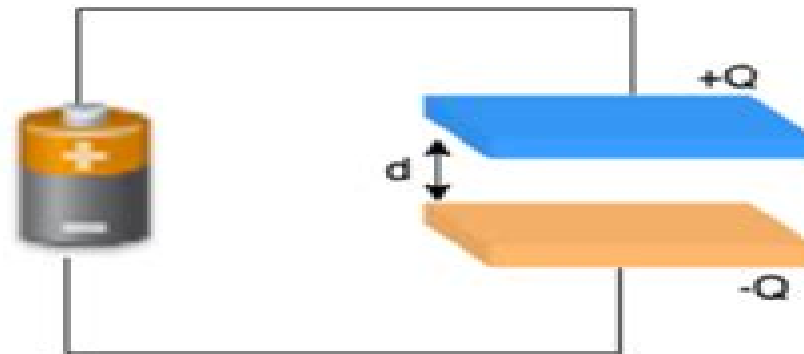
Capacitors Lab Online

Purpose

The purpose of this activity is to examine how the applied voltage and the basic geometry of a two plate capacitor affects things such as how much charge the capacitor is holding, the amount of electrical energy stored in the capacitor, and the electric field between the two plates.

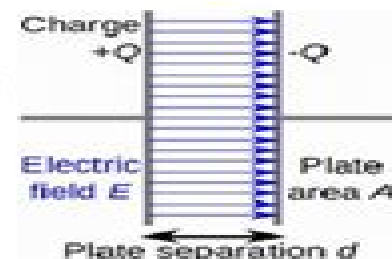
Theory

A simple two plate capacitor consists of two plates of the same area A , separated by a distance d . When one of these plates is connected to the positive side of a potential difference source ΔV , and the other plate is connected to the negative side of the potential difference source, then a charge Q builds up on each plate. A positive charge will build up on the plate connected to the positive side of the potential difference source, and a negative charge will build up on the plate connected to the negative side of the potential difference source. As shown in the diagram to the right.



The ratio of the magnitude of charge that builds up either plate and the potential difference that is applied to the plates gives a term called the capacitance C of the capacitor. The SI units of capacitance are Farads, F.

As we already know electric charges generate electric fields, and the electric charges built the two plates of the capacitor are no different. Since the two charges are of the same magnitude Q , and separated by a constant distance d , a uniform electric field is generated between the two plates. Here we are ignoring what is called the fringe effects, meaning the electric field at the edges of the two plates and beyond. In the diagram to the right, we can see that the electric field points from the positively charged plate towards the negatively charged plate.



Lab Manual For Capacitor

Edwin C. Craig



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