

Capacitors

Phet Simulation :

https://phet.colorado.edu/sims/html/capacitor-lab-basics/latest/capacitor-lab-basics_en.html

OBJECTIVES:

- (Capacitor connected to battery): Study the effect of changing the voltage across a capacitor, its plates area and separation distance on the capacitance, charges on plates and electric field between plates.
- (Charged capacitor disconnected from battery): Study the effect of changing the plates area and separation distance of a capacitor on the voltage across the plates, charges on plates and electric field between plates.
- Study discharging of a capacitor through a light bulb.

PART 1: Parallel Plate Capacitor – Battery Connected

Choose "Capacitors" tab. Select all four options in top right corner (Plate Charges, Bar Graph, Electric Field, Current Direction).

1. Note the Capacitance: $C = 0.30\text{pF}$, Plates separation: $d = 6.0\text{mm}$, Plates Area : $A = 200\text{mm}^2$
Using "d" and "A", compute the capacitance below. Does it match the value provided?

Part 1 a – "d" and "A" constant – Battery Connected

Connect Voltmeter across the capacitor. Slowly increase the battery voltage to 1.5 V.

Observe changes in following quantities as "d" and "A" are kept constant and voltage is increased.

C : Capacitance, Q : Charge on the capacitor, V : Voltage across the capacitor, E : Electric field between the plates of capacitor

Note the observations and provide reasoning in table below.

2. As voltage was being increased, what did you observe about the motion of charges in the external circuit?

As voltage is increased, charge on

Phet Lab Answers Capacitors

Natarajan Ramasamy

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Phet Lab Answers Capacitors:

Solutions Manual for Power System Capacitors Natarajan Ramasamy, 2005-03-09

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