

Capacitor Problem (1)



Consider two oppositely charged parallel plates separated by a very small distance d .

What happens when the plates are pulled apart a fraction of d ? Will the quantities listed below increase or decrease in magnitude or stay unchanged?

- (a) Electric field \vec{E} between the plates.
- (b) Voltage V across the plates.
- (c) Capacitance C of the device.
- (d) Energy U stored in the device.

