

Capacitance: The ability to store separated charge $C \equiv Q/V$

- Any pair conductors separated by a small distance. (e.g. two metal plates)
- Capacitor stores separated charge $Q = CV$
 - Positive Q on one conductor, negative Q on other
 - Net charge is zero
- Stores Energy $U = (1/2) Q V$

Units: 1 Coulomb/Volt = 1 Farad (F)

