

## IEEE's Hands on Practical Electronics (HOPE)

### Week 4: Capacitance

#### Definitions:

Capacitance: The ratio of the amount of charge stored for a given voltage and the voltage.

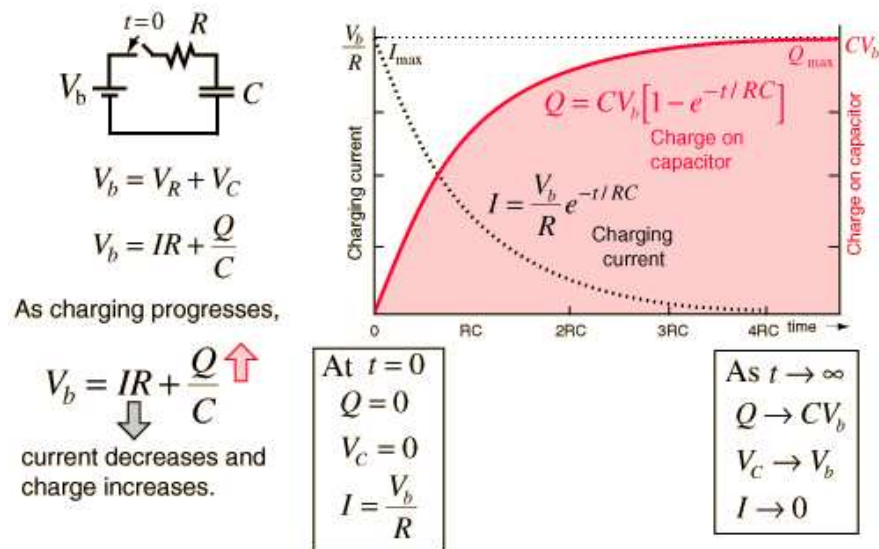
#### Units:

Capacitance (C) is measured in Farads (F)

Charge (Q) is measured in Coulombs (C)

#### Equations:

$$C = Q/V$$



#### Facts:

Capacitors charge exponentially.

Capacitors behave like batteries with very short life spans.