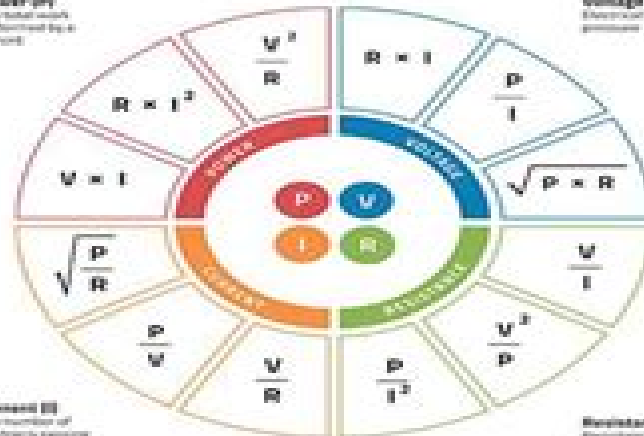


# Basic Electronics Theory

## Ohm's Law

**Power (P)**  
The total work performed by a circuit



## Basic Units

Quantity	Unit
Capacitance	F
Charge	C
Current	A
Energy	J
Force	N
Frequency	Hz
Inductance	H
Magnetic Flux	Wb
Potential	V
Power	W
Resistance	$\Omega$

## Kirchhoff's Laws

### Closed Loop Rule

The directed sum of the electrical potential differences (voltages) around any closed circuit is zero.

$$\sum \mathcal{E} = 0$$

$$V_{AB} + V_{BC} + V_{CA} = 0$$

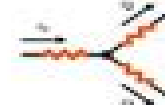


### Junction Rule

The sum of currents entering the junction are equal to the sum of currents leaving.

$$\sum I_{in} = \sum I_{out}$$

$$I_1 + I_2 = I_3$$



## Resistor Network

### Series

$$R_s = R_1 + R_2 + R_3$$



### Parallel

$$\frac{1}{R_p} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$



## Capacitor Network

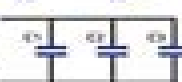
### Series

$$\frac{1}{C_s} = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3}$$



### Parallel

$$C_p = C_1 + C_2 + C_3$$



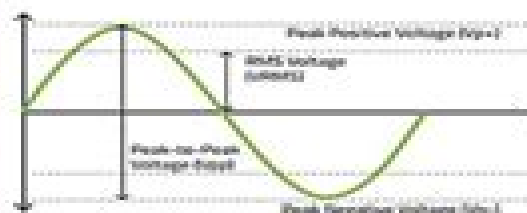
## Unit Prefixes

tera	T	$\times 10^{12}$	milli	m	$\times 10^{-3}$
giga	G	$\times 10^9$	micro	$\mu$	$\times 10^{-6}$
mega	M	$\times 10^6$	nano	n	$\times 10^{-9}$
kilo	k	$\times 10^3$	pico	p	$\times 10^{-12}$
hecto	h	$\times 10^2$			
deka	da	$\times 10^1$			
base					
deci	d	$\times 10^{-1}$			
centi	c	$\times 10^{-2}$			

Example:  
 $25 \mu A = 25 \times 10^{-6} A = 0.000025 A$

Example:  
 $1.5 kV = 1.5 \times 1000 V = 1500 V$

## Alternating Current



$$\text{Average AC Voltage} = 0.637 \times \text{Peak} = 0.637 \times V_p$$

$$\text{RMS AC Voltage} = 0.707 \times \text{Peak} = 0.707 \times V_p$$

$$\text{Peak AC Voltage} = 1.414 \times \text{Average} = 1.414 \times V_{avg}$$

# Electronic Theory Chemical Reactio 4ed

**D. Michael P. Mingos**



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