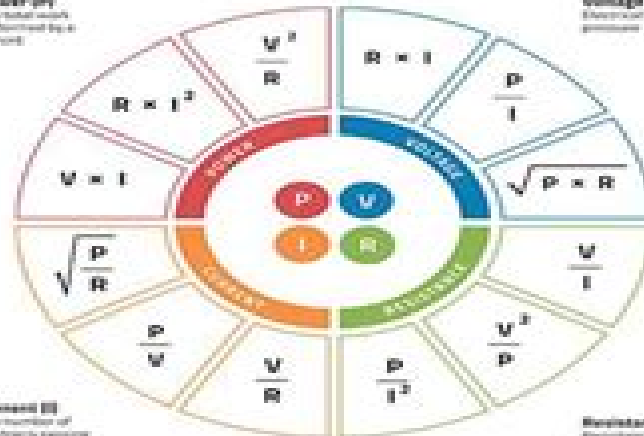


# Basic Electronics Theory

## 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.

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

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



### 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

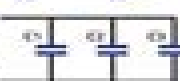
### Series

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



### Parallel

$$C_p = C_1 + C_2 + C_3$$

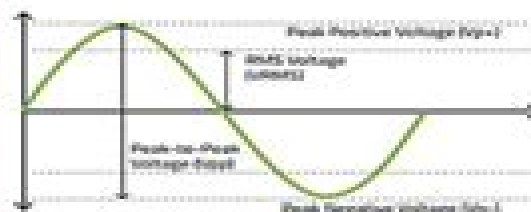


## Unit Prefixes

|       |    |                  |       |       |                   |
|-------|----|------------------|-------|-------|-------------------|
| 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:  
 $25 \mu A = 25 \times 10^{-6} A = 0.000025 A$   
 $1.5 mV = 1.5 \times 10^{-3} V = 0.0015 V$

## Alternating Current



$$\text{Average AC Voltage} = 0.637 \times V_{peak} = 0.637 \times V_{avg}$$

$$\text{RMS AC Voltage} = 0.707 \times V_{peak} = 0.707 \times V_{avg}$$

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

# Electronic Theory Chemical Reactio 4ed

**Klaus D. Sattler**



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