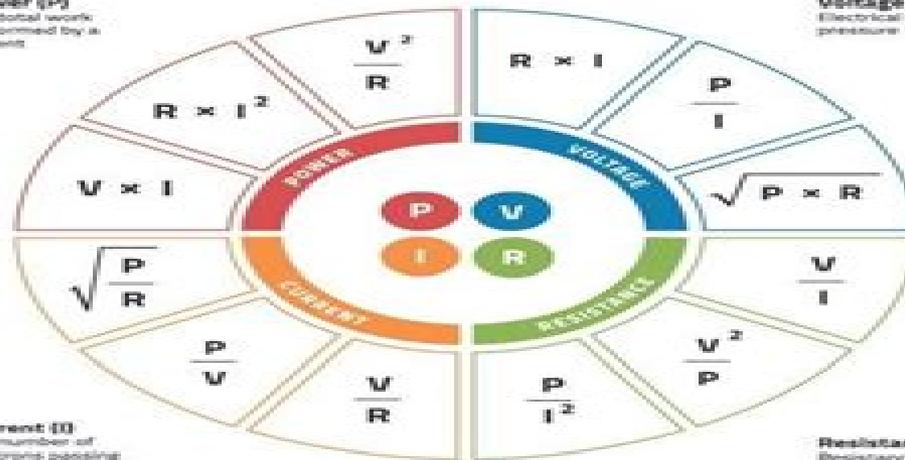


## Ohm's Law

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

**Voltage (V)**  
Electrical force or pressure



**Current (I)**  
The number of electrons passing in a single point

**Resistance (R)**  
Resistance to the flow of current

## Basic Units

Quantity	Unit
Capacitance	Farad (F)
Charge	Coulomb (C)
Current	Ampere (A)
Energy	Joule (J)
Force	Newton (N)
Frequency	Hertz (Hz)
Inductance	Henry (H)
Magnetic Flux	Weber (Wb)
Potential	Volt (V)
Power	Watt (W)
Resistance	Ohm (Ω)

## Kirchhoff's Laws

**Closed Loop Rule**  
The directed sum of the electrical potential differences (voltage) around any closed circuit is zero

$$\sum \Delta V_{\text{closed loop}} = 0$$

$$V_{AB} + V_{BC} - V_{CD} - V_{DA} = 0$$



**Junction Rule**

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

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

$$I_1 = I_2 + I_3$$



## Resistor Network

**Series**  $R_T = R_1 + R_2 + R_3$



**Parallel**

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



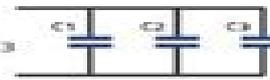
## Capacitor Network

**Series**  $\frac{1}{C_T} = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3}$



**Parallel**

$$C_T = C_1 + C_2 + C_3$$

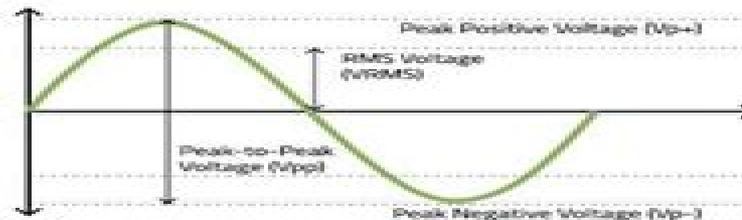


## Unit Prefixes

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)	-	$\times 10^0$			
Deci-	d	$\times 10^{-1}$			
Centi-	c	$\times 10^{-2}$			

examples:  
 25  $\mu$ A =  $25 \times 10^{-6}$  A = 0.000025 A  
 4.7M $\Omega$  =  $4.7 \times 10^6 \Omega$  = 4,700,000  $\Omega$

## Alternating Current



Average AC Voltage =  $0.637 \times \text{Peak}$   
=  $0.707 \times \text{RMS}$

RMS AC Voltage =  $0.707 \times \text{Peak}$   
=  $1.11 \times \text{Average}$

Peak AC Voltage =  $1.414 \times \text{RMS}$   
=  $1.57 \times \text{Average}$

# Basic Digital Electronics Theory Study Guide

**G Orfield**



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