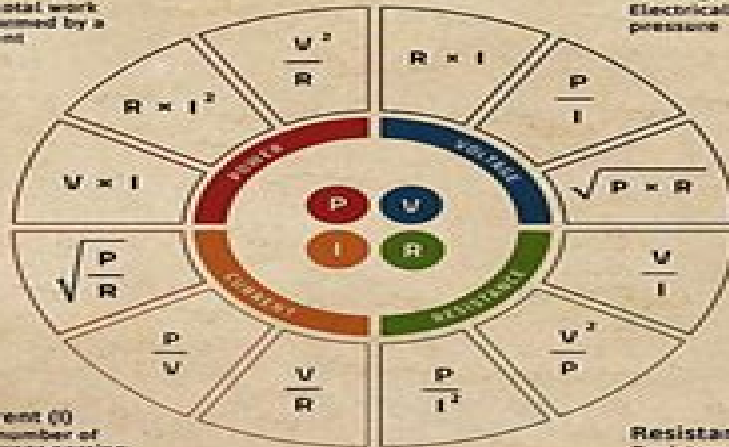


# BASIC ELECTRONICS THEORY

## Ohm's Law

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



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

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

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

## Basic Units

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

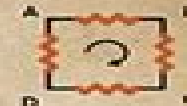
## Kirchhoff's Laws

### 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.

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

$$I_1 = I_2 + I_3$$



## Resistor Network

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



**Parallel**  $\frac{1}{R_t} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$

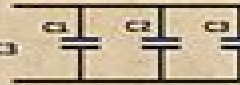


## Capacitor Network

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



**Parallel**  $C_t = C_1 + C_2 + C_3$

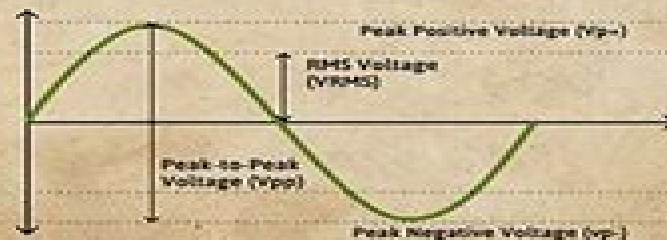


## Unit Prefixes

Tera-	T	$\times 10^{12}$	Milli-	m	$\times 10^{-3}$
Giga-	G	$\times 10^9$	Micro-	μ	$\times 10^{-6}$
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:  
 $25 \mu A = 25 \times 10^{-6} A = 0.000025 A$   
 $4.7 M\Omega = 4.7 \times 10^6 \Omega = 4,700,000 \Omega$

## Alternating Current



Average AC Voltage  
 $= 0.637 \times \text{Peak}$   
 $= 0.9 \times \text{RMS}$

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

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

# Electronic Basic Knowledge Guide

**WJ Hussar**



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mechanical electrical and chemically induced reliability and more Unlike many other available works it neither assumes the reader's familiarity with the subject nor is it so basic that the reader may lose interest Dr Ali Jamnia has published a large number of engineering papers and presentations and is the holder of a number of patents and patent applications He has been involved in the issues of electronics packaging since the early 90s and since 1995 has worked toward the development of innovative electronics systems to aid individuals with physical or cognitive disabilities By consulting this manual engineers program managers and quality assurance managers involved in electronic systems gain a fundamental grasp of the issues involved in electronics packaging learn how to define guidelines for a system's design develop the ability to identify reliability issues and concerns and are able to conduct more complete analyses for the final design **Basic Electronics Explained:**

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