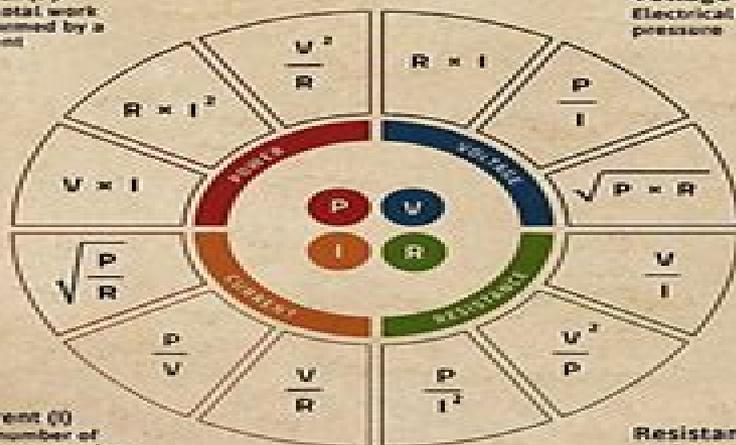


BASIC ELECTRONICS THEORY

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	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

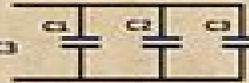
Series

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



Parallel

$$C_T = C_1 + C_2 + C_3$$

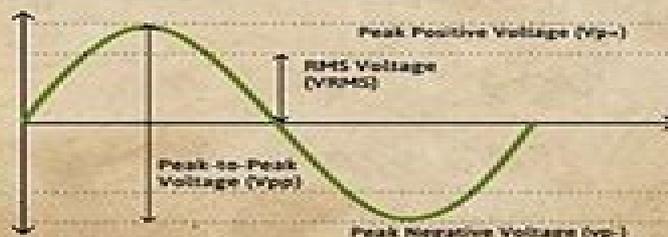


Unit Prefixes

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

Alternating Current



Average AC Voltage
 $= 0.637 \times \text{Peak}$
 $= 0.7 \times \text{RMS}$

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

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

Electronics Basics

Ensheng Dong



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