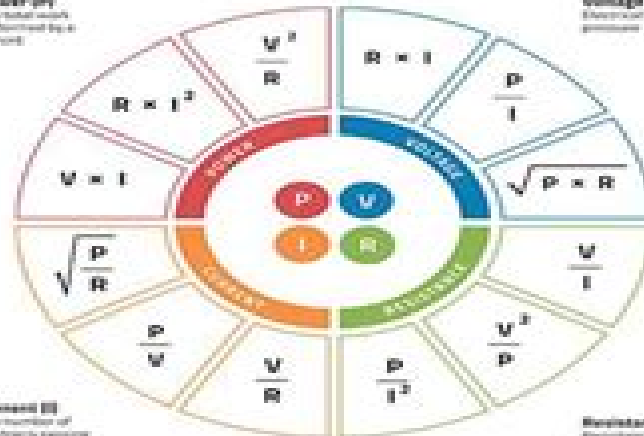


Basic Electronics Theory

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	Ω

Kirchhoff's Laws

Closed Loop Rule

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

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

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

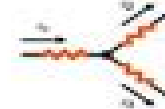


Junction Rule

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

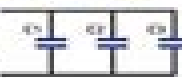
Series

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



Parallel

$$C_p = C_1 + C_2 + C_3$$

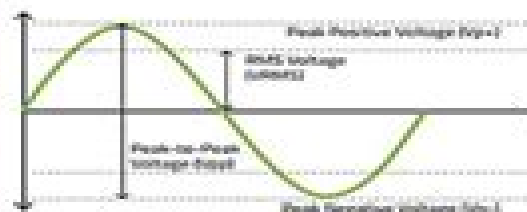


Unit Prefixes

tera	T	$\times 10^{12}$	milli	m	$\times 10^{-3}$
giga	G	$\times 10^9$	micro	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					
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



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

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

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

Electronic Theory Chemical Reactio 4ed

Stephan W Koch, Hartmut Haug



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