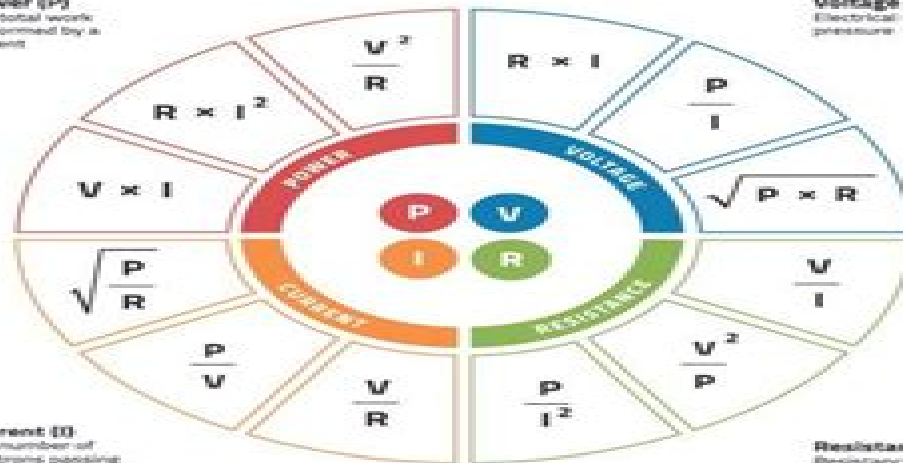


Ohm's Law

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.

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

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

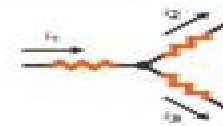


Junction Rule

The sum of currents entering the junction are then 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

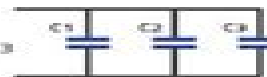
Series

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



Parallel

$$C_T = C_1 + C_2 + C_3$$

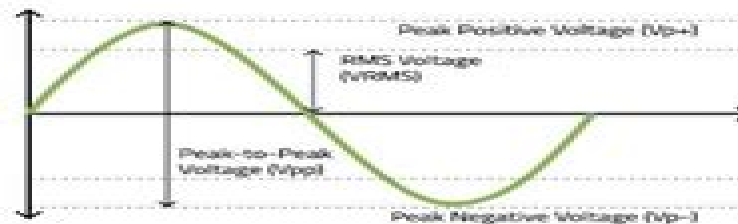


Unit Prefixes

Tera-	T	$= 10^{12}$	Milli-	m	$= 10^{-3}$
Giga-	G	$= 10^9$	Micro-	μ	$= 10^{-6}$
Mega-	M	$= 10^6$	Nano-	n	$= 10^{-9}$
Kilo-	K	$= 10^3$	Pico-	p	$= 10^{-12}$
Hecto-	H	$= 10^2$			
Deka-	Dk	$= 10^1$			
Base	-	$= 10^0$			
Deci-	d	$= 10^{-1}$			
Centi-	c	$= 10^{-2}$			

examples:
 25 μA = 25×10^{-6} A = 0.000025 A
 4.7MΩ = 4.7×10^6 Ω = 4,700,000 Ω

Alternating Current



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

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

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

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Jicheng Xie



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