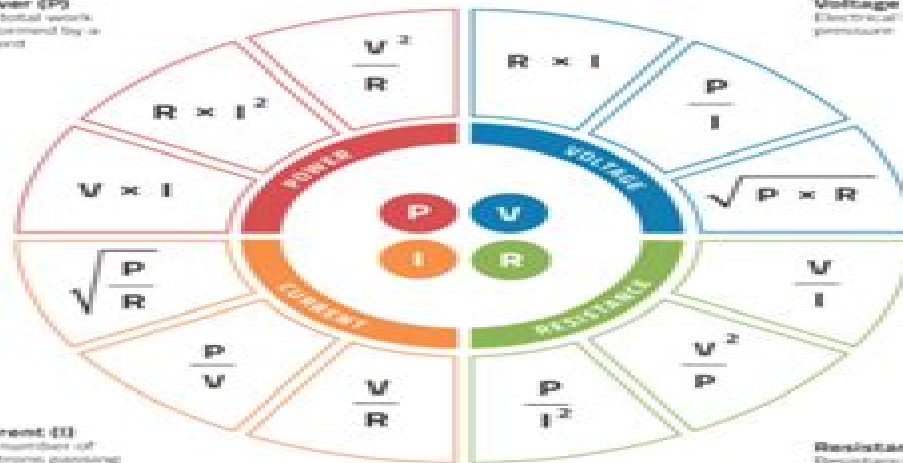


Ohm's Law

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	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

$$R_s = R_1 + R_2 + R_3$$



Parallel

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



Capacitor Network

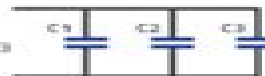
Series

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



Parallel

$$C_p = C_1 + C_2 + C_3$$

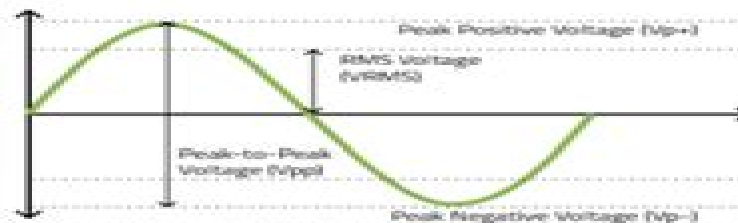


Unit Prefixes

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	$\times 10^2$			
Deca-	Da	$\times 10^1$			
Base	-	$\times 10^0$			
Deci-	d	$\times 10^{-1}$			
Centi-	c	$\times 10^{-2}$			

examples:
 25 μA = 25 × 10⁻⁶ A = 0.000025 A
 4.7MΩ = 4.7 × 10⁶ Ω = 4,700,000 Ω

Alternating Current



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

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

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

Basic Electronics Engineering

Wbut

A decorative graphic element consisting of a horizontal light blue bar with a rounded right end. To the right of the bar is a semi-circular red gradient shape that overlaps the bar's end.

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Basic Electronics Engineering & Devices Dr. R.K. Singh, Ashish Dixit, 2007 Basic Electronics ML Anand, 2022-01-03
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