

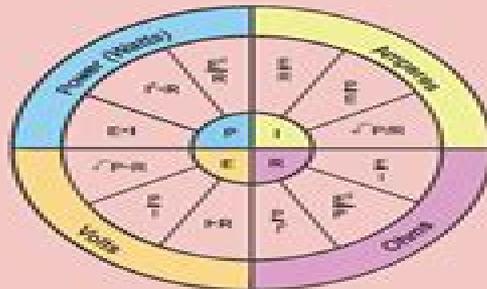
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Rules of Electricity

Ohm's Law

One volt of electromotive force will force one amp of current flow through one ohm of resistance.

E = Voltage
I = Current
R = Resistance
P = Power (watts)
 There are 3 formulas for each value



Example:

- What is the current in a 120-volt circuit with a load of 1800 watts?
 $I = P/E = 1800/120 = 15$ amps
- What is the Voltage of a circuit with a resistance of 12 Ω and a current draw of 10 amps?
 $E = IR = 10 \times 12 = 120$ volts

Kirchhoff's Laws

Current: the sum of current in a junction equals the sum of current out of the junction. (what goes in must come out)
Voltage: The algebraic sum of the voltage (potential) differences in any loop must equal zero. (voltage applied equals voltage drops)

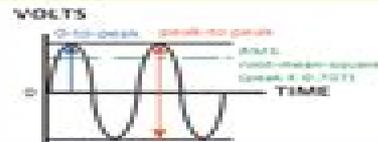
Electrical Generation



Electrical Generators: Devices that convert mechanical energy into electrical energy. Operation of power generators is based on the phenomenon of electromagnetic induction: whenever a conductor moves relative to a magnetic field, voltage is induced in the conductor.

Single-Phase Power

Single-Phase (1Ø) Power: One complete cycle of a sine wave. North America operates at a frequency of 60-Hz (cycles per second).



Three-Phase Power

Three-Phase (3Ø) Power: Consist of three separate sine waves equally spaced 120° apart. The advantage of 3Ø power is more energy can be delivered in a load per unit of size. Most commercial and industrial facilities are supplied with 3Ø power.

Basic Electrical Circuit



Voltage forces current flow through a resistance. The current returns to the source. There must be a complete path for electrical current to flow.

Series & Parallel Circuits

Series Circuits



A series circuit is a circuit that has only one path through which electrons may flow.

Rules for a Series Circuit

The total current in a series circuit is equal to the current in any other part of the circuit.

$$\text{Total Current } I_t = I_1 = I_2 = I_3 = I_4$$

The total voltage in a series circuit is equal to the sum of the voltage across all parts of the circuit.

$$\text{Total Voltage } E_t = E_1 + E_2 + E_3 + E_4$$

The total resistance of a series circuit is equal to the sum of the resistances of all the parts of the circuit.

$$\text{Total Resistance } R_t = R_1 + R_2 + R_3 + R_4$$

Rules for a Parallel Circuit

The total current in a parallel circuit is equal to the sum of the currents in all the branches of the circuit.

$$\text{Total Current } I_t = I_1 + I_2 + I_3$$

The total voltage across any branch in parallel is equal to the voltage across any other branch and the total voltage.

$$\text{Total Voltage } E_t = E_1 = E_2 = E_3$$

The total resistance of a parallel circuit is found by applying Ohm's Law to the total value of the circuit.

$$\text{Total Resistance } (R_t) = \frac{\text{Total Voltage } (E_t)}{\text{Total Amperage } (I_t)}$$

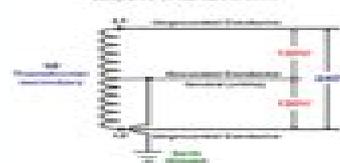
Parallel Circuits



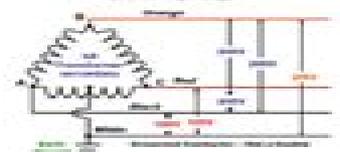
A parallel circuit is a circuit that has more than one path through which the electrons may flow.

Common Distribution Systems

120/240-VAC, 1Ø, 3-wire



120/240-VAC, 1Ø, 4-wire (Center High Leg)



120/208-VAC, 3Ø, 4-wire (Wye Connected) Typically Designated 208Y/120



208Y/120VAC, 3Ø, 4-wire (Wye Connected) Typically Designated 208Y/120



Basic Electricity Guide

Michael Brown



Basic Electricity Guide:

The Enigmatic Realm of **Basic Electricity Guide**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Basic Electricity Guide** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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