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Electrical Engineering Formulas. Electromagnetism. The theoretical foundation for EE is electromagnetism. The theory of classical electromagnetism is based on Maxwell's equations, which provide a unified description of the behavior of electric and magnetic fields as well as their interactions with matter.

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The most common used electrical formulas - Ohms Law and combinations. Electrical Motor Efficiency. $\mu = 746 \text{ Php} / \text{Pinput}_w$

(6) where. μ = efficiency. Php = output horsepower (hp) Pinput_w = input electrical power (watts) ... Electrical Motor - Power. Electrical Motor - Amps.

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List of All Electrical Engineering Formulas

Electrical Formulas Here i discuss some of important electrical formulas.All this formulas are useful for basic calculation in Electrical Engineering including Voltage,Ampere,Power, efficiency,power factor and many more .I hope it can make your basic understanding about electrical calculation is clear.

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Most commonly used electrical formulas are formulas related to voltage, current, power, resistance etc. Volt is a unit of electrical potential or motive force - the potential is required to send one ampere of current through one ohm of resistance. Watt is a unit of electrical energy or power - one watt is the product of one ampere and one volt - one ampere of current flowing under the force of one volt gives one watt of energy.

Electrical Formulas - Explanation,Formula and Solved Examples

Formula; Voltage: $V = I \times R$; Current: $I = V/R$; Resistance: $R = V/I$; Power: $P = V \times I$ or $P = V^2 / R$ or $P = I^2 R$

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Electrical & electronic formulas - Basic electronics, electrical units, symbols, basic concepts, DC/AC circuit laws, resistor color code

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The basic formula to calculate apparent power in any circuit is: $S = VI$ where S = Apparent power measured in VA (volt-amperes) V = Voltage I = Current Also learn top 100 Basic Electrical Engineering Formulas Industrial unit

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