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How to solve a Synchronous Motor or Generator Equivalent Circuit (Electrical Power PE Exam)

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Calculating Power Output and Efficiency for a DC Shunt Generator

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An introduction of Synchronous Machines (Generators and Motors) for the PE Exam in Electrical Power

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Electrical Machines Formulas

Hysteresis Loss:  $\propto$  = hysteresis or Steinmetz's constant.  $B_{max}$  = maximum value of the magnetic flux density.  $f$  = frequency of magnetization.  $V$  = volume of the core Also Where.

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Losses in Electrical Machines - Formulas and Equations

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Formula Used:  $TIC_{12} = 1 / (mhz / 12)$   $TIC_6 = 1 / (mhz / 6)$  8-bit Timer Counter Maximum Run-Time for 12 clock =  $TIC_{12} * 256 / 1000$ . 8-bit Timer Counter Maximum Run-Time for 6 clock =  $TIC_6 * 256 / 1000$ . 16-bit Timer Counter Maximum Run-Time for 12 clock =  $TIC_{12} * 65536 / 1000$ . 16-bit Timer Counter Maximum Run-Time for 6 clock =  $TIC_6 * 65536 / 1000$ .

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List of All Electrical Engineering Formulas

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The output power is given by.  $P_{out} = \eta T$ . Related Post: Voltage And Power Equations of a DC Motor. Efficiency Of DC Motor: Electrical Efficiency:  $\eta_e = \text{Converted power in armature} / \text{Input electrical Power}$ . Mechanical Efficiency:  $\eta_m = \text{Converted power in armature} / \text{output mechanical power}$ . Overall Efficiency:

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Amperes (Alternating Current AC Motors) Alternating Current AC (Single- $\phi$  & 3- $\phi$ ) Finding Motor Hp (Horse Power), kVA (kilo-Volt Ampere) kW input, When Motor HP is known kW (kilowatts) Amperes, when ...

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## Electrical Formulas AC & DC Circuits (Single- $\phi$ & 3- $\phi$ )

The machines which are operated in relation with electrical energy are called electric machines or electrical machines. In electrical machines, either input or output or both can be electricity.. Types of Electrical Machines. The electric machines are of three main types, transformer, generator, and motor. Electrical Transformer: In the transformer, both input and output are electrical power.

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## Electric Machines Transformers Generators and Motors ...

Energy Production. Energy efficiency is the ratio of useful energy to input energy.  $\text{efficiency} = (\text{useful energy} / \text{input energy}) \times 100$  For example, a solar panel that creates 300 watts of electricity from 1500 watts of sunlight:  $\text{efficiency} = (300 / 1500) \times 100 = 20\%$ .

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## 4 Examples of the Efficiency Formula - Simplifiable

Basic Electrical Formulas. INTRODUCTION TO UNIT 1 ELECTRICIAN'S MATH AND BASIC ELECTRICAL FORMULAS. In order to construct a building that will last into the future, a strong foundation is a prerequisite. The foundation is a part of the building that

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## INTRODUCTION TO UNIT 1 ELECTRICIAN'S MATH AND BASIC ...

$P$  = Number of poles installed in the machine. Calculation: Find the synchronous speed of 4 pole induction motor which operates at 60 Hz. Solution:  $n_{sync} = 120 * 60 / 4 = 1800$  r/min. Motor Slip. Slip of a motor can be found from the formula:  $s = (n_{sync} - m) / n_{sync} * 100$ .  $n_{sync}$  = Speed of magnetic field.  $m$  = Mechanical shaft speed

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## Induction Motor Formulas with Calculations

parameter of electrical machine.  $P_{out} / P_{in} = \eta$  efficiency  $P_{in} = P_{out} + P_{total\ power\ loss}$   $P_{total\ power\ loss} = P_{Fe} + P_{Cu} + P_{m}$   $\eta = P_{out} / P_{in}$   $P_{out} / P_{in} = \eta$  can be also expressed in % TEMPERATURE RISE OF THE MACHINE Simplifying assumptions:  $\eta$  machine is an ideal homogeneous body,  $\eta$  machine is internally heated by total power loss  $P_{total\ power\ loss}$ ,

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## ELECTRICAL MACHINES

Alternator and Synchronous Generator Formulas & Equations. The following synchronous generator & alternator formulas and equations can be used to design, simplify, and analyze the basic AC generators circuits to determine the generated voltage and EMF, speed & frequency, efficiency, voltage & current, generated power and losses etc.

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Synchronous Generator and Alternator Formulas & Equations

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Electrical Machines works on the principle of Electromechanical Energy Conversion which means the Electrical Energy is converted to mechanical & vice versa. The Electrical Machines are categorised into the following categories i.e Electrical Transformer, A.C Machines & Induction Machines, Fractional Kilowatt Motors, DC Machines.

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