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q = heat transferred per unit time (W, Btu/hr) A = heat transfer area of the surface (m^2 , ft^2) h_c = convective heat transfer coefficient of the process (W/ ($m^2 K$) or W/ ($m^2 o C$), Btu/ ($ft^2 h...$

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...

Cylinder Blind End Area = 28.26 square inches. Pounds of Force Needed / Cylinder Area = 50,000 / 28.26 = 1,769.29 PSI. What pressure is needed to develop 50,000 pounds of pull force from a

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6 diameter cylinder which has a 3: diameter rod? Pounds of Force = 50,000 pounds. Cylinder Rod End Area = 21.19 square inches.

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$\eta = \frac{W_{out}}{W_{in}}$ Efficiency $d = d_{00}$ Energy:

Work $W = \text{work}$ $F = \text{force}$ $d =$

distance Fluid Mechanics 1 $T = \frac{L}{P}$

Power (Guy-L $\frac{L}{P} = \frac{V}{P}$ $P = \frac{V}{L}$

$Q = Av$ $A = \frac{Q}{v}$ $v = \frac{Q}{A}$

$P_{abs} = P_{gauge} + P_{atm}$ absolute pressure = gauge pressure + atmospheric pressure

$P = \text{absolute pressure}$ Force $A =$

Area $V = \text{volume}$ $T = \text{absolute}$

temperature $Q = \text{flow rate}$

Engineering Formula Sheet

Efficiency Of DC Motor: Electrical

Efficiency: $\eta_e = \frac{P_{mech}}{P_{elec}}$ = Converted

power in armature / Input

electrical Power. Mechanical

Efficiency: $\eta_m = \frac{P_{mech}}{P_{mech}}$ = Converted

power in armature / output

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mechanical power. Overall Efficiency: $\eta = \frac{\text{Output mechanical Power}}{\text{Input electrical Power}}$.
 $\eta = \frac{(\text{Input Power} - \text{Total losses})}{\text{Input Power}}$. Where.

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engineering calculations, many of which relate to Bessel Functions, Complex Numbers or converting between different bases.

Engineers may also find the Excel Math and Trig functions useful.

Excel Engineering Functions -
Excel Functions and Formulas

Electric energy is power multiplied with time: $W = P t$ (5) where. $W =$ energy (Ws, J) $t =$ time (s)

Alternative - power can be expressed. $P = W / t$ (5b) Power is consumption of energy by consumption of time.

Electrical Formulas - Engineering ToolBox

Basic Voltage, Current, Power and Resistance Formulas in AC and DC Circuits. Following are the

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electrical engineering formulas and equations for the basic quantities i.e. current, voltage, power, resistance and impedance in both DC and AC circuits (single phase and three phase).

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Engineering Formulas by Kurt Gieck - Goodreads

This reference book is to the engineering profession what "Roark's Formulas for Stress and Strain"* is to strength of materials, only better; it's less than half the size. A goodly portion of the book is devoted to an unbelievably complete collection of chapters on mathematics which, as most engineers know, will come in extremely handy sooner or later.

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