

BASIC MECHANICAL ENGINEERING

(FORMULA)

INTRODUCTION

- $F = ma$ (Newton)
- $P = F/a$ (N/m^2) or (Pa) $\Rightarrow 1 Pa = 1 N/m^2$ and $1 bar = 10^5 Pa$
- $P_{atm} = 1.01325 bar$
- $P = \rho gh$
- Absolute pressure = Atmospheric Pressure $\pm$ Gauge Pressure
- Power $P = W/t$ (J/s) or (Watt)
- Potential Energy P.E. = wh (Nm)
 $= mgh$ where, $g = 9.81 m/s^2$
- Kinetic Energy K.E. = $(mv^2)/2$ (Nm)
- Specific Heat Capacity
 - $Q = mC\Delta T$ or
 - $Q = W + U$ (kJ/kg K)
 - $C = Q/(m \Delta T)$
- Enthalpy $H = U + pV$
- Specific Enthalpy $h = U + pV$
- Friction Power F.P. = I.P. - B.P.
- Mechanical Efficiency (η_m) = B.P. / I.P.
- Thermal Efficiency (η_{th})
 - $\eta_{th} = (\text{output of engine}) / (\text{Heat input from the fuel})$

Basic Mechanical Engineering Formulas Pocket Guide

Tyler G. Hicks



Basic Mechanical Engineering Formulas Pocket Guide:

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A

Pocket-book of Mechanical Engineering Charles MacCaughey Sames, 1911

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Mechanical Engineering American Society of Mechanical Engineers, 1921 History of the American society of mechanical engineers Preliminary report of the committee on Society history issued from time to time beginning with v 30 Feb 1908

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