

# BASIC MECHANICAL ENGINEERING

## (FORMULA)

### **INTRODUCTION**

- $F = ma$  (Newton)
- $P = F/a$  ( $N/m^2$ ) or (Pa)  $\Rightarrow 1Pa = 1 N/m^2$  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
  - $Q = mCAT$  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 ( $\eta_m$ ) =  $B.P. / I.P.$
- Thermal Efficiency ( $\eta_{th}$ )
  - $\eta_{th} = (\text{output of engine}) / (\text{Heat input from the fuel})$

# Mechanical Engineering Basic Formulas Pocket Guide

**Charles M. Sames**



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