

# 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

**Zhe Xu**



## **Mechanical Engineering Basic Formulas Pocket Guide:**

Decoding **Mechanical Engineering Basic Formulas Pocket Guide**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Mechanical Engineering Basic Formulas Pocket Guide**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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