

# 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 ( $\eta_{th}$ )
  - $\eta_{th} = (\text{output of engine}) / (\text{Heat input from the fuel})$

# Basic Formulas For Mechanical Engineering

**R Barnett**



## **Basic Formulas For Mechanical Engineering:**

## Unveiling the Magic of Words: A Overview of "**Basic Formulas For Mechanical Engineering**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Basic Formulas For Mechanical Engineering**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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