

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 (η_m) = $B.P. / I.P.$
- Thermal Efficiency (η_{th})
 - $\eta_{th} = (\text{output of engine}) / (\text{Heat input from the fuel})$

Basic Formulas For Mechanical Engineering

VM Jensen



Basic Formulas For Mechanical Engineering:

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

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Basic Formulas For Mechanical Engineering**," a mesmerizing literary masterpiece penned by 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 into the book's central themes, examine its distinctive writing style, and assess its profound affect on the souls of its readers.

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