

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

Mechanical Engineering Basic Formulas Pocket Guide

Charles MacCaughey Sames



Mechanical Engineering Basic Formulas Pocket Guide:

Mechanical Engineering Basic Formulas Pocket Guide Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Mechanical Engineering Basic Formulas Pocket Guide**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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