

# 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**



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

**Mechanical Engineering Formulas Pocket Guide** Tyler G. Hicks,2003-02-19 THOUSANDS OF MECHANICAL ENGINEERING FORMULAS IN YOUR POCKET AND AT YOUR FINGERTIPS This portable find it now reference contains thousands of indispensable formulas mechanical engineers need for day to day practice It s all here in one compact resource everything from HVAC to stress and vibration equations measuring fatigue bearings gear design simple mechanics and more Compiled by a professional engineer with many years experience the Pocket Guide includes common conversions symbols and vital calculations data You ll find just what you need to solve your problems quickly easily and accurately **The Mechanical Engineer's Pocket-book** William Kent,1895 *A Pocket-Book of Mechanical Engineering* Charles Maccaughey Sames,2023-07-18 This concise reference guide is an essential tool for mechanical engineers technicians and students It contains a wealth of information on mechanics thermodynamics materials science and other key areas of mechanical engineering Whether you re in the classroom or the workshop this pocket sized book is an indispensable resource This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant **The Mechanical Engineer's Pocket-book** William Kent,1902 **A Pocket-book of Mechanical Engineering** Charles MacCaughey Sames,1906 [The Mechanical Engineer's Pocket-book](#) William Kent,1902

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