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Formula:  $MI$  for Solid Round Beams =  $(\pi * (OD^4 - ID^4)) / 64$ . Deflection =  $(length^3 * force) / (3 * E * MI)$  Bending Stress =  $(force * length) / (MI / (0.5 * height))$  Where,  $MI$  = Moment of Inertia.  $E$  = Modulus of Elasticity in psi.

## **List of All Mechanical Engineering Formulas**

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PLTW, Inc. Engineering Formulas  
 $\eta = \frac{d}{d_0}$  Efficiency  
 $E = W/d$  Energy: Work  
 $F = \frac{W}{d}$  force  
 $P = \frac{W}{t}$  Power (Guy-L)  
 $P_1 V_1 = P_2 V_2$  Boyle's Law  
 $Q = Av$   
 $v_1 = A_2 v_2$   
+ V absolute pressure = gauge pressure + atmospheric pressure  
P = absolute pressure  
Force A = Area  
V = volume  
T = absolute temperature  
Q = flow rate

## Engineering Formula Sheet

Solid mechanics: Torque/moment of the force:  $M = F \cdot r$ . Newton's second law:  $F = m \cdot a$  and for rotational motion:  $M = I \epsilon$ . Weight:  $F = m \cdot g$ . Hooke's law:  $\sigma = E \cdot \epsilon$  and  $\sigma = \frac{F}{A}$ . Strain:  $\epsilon = \frac{\Delta L}{L}$  Continue Reading. Well, mechanical engineering is a wide branch of engineering making use of various disciplines. Most design calculations are based on mechanics and thermodynamics and require lots of different formulas.

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Nowadays lots of software tools are available in market to take care about the lengthy calculations. Most of the cases a mechanical design engineer only needs to put input and the software tools give the output in desired format. These tools definitely help to drastically reduce the design time. In this article on mechanical design tutorial today I will talk about design of a simple "L ...

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## **Mechanical Engineering basic concepts pdf - Mechanical Geek**

Mr. Hicks holds a bachelor's degree in Mechanical Engineering from Cooper Union School of Engineering in New York. He is the author of more than 20 books in engineering and related fields, including Civil Engineering Formulas, Handbook of Mechanical Engineering Calculations, and Handbook of Energy Engineering Calculations.

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