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Mechanical Engineering Formula Handbook

Mr. Hicks is the author of McGraw-Hill's Handbook of Mechanical Engineering Calculations and Standard Handbook of Engineering Calculations, and resides in Rockville Center, New York.

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 $d = d_{00}$ Energy: Work $W =$ work
 $F =$ force $d =$ distance
Fluid Mechanics
 $1 T' L$ Power (Guy-L' L P 1 V
 $1 = P 2 V 2 B y' L Q = Av A 1 v 1 = A 2$
 $v 2 + V$ absolute pressure = gauge pressure + atmospheric pressure
 $P =$ absolute pressure
 $A =$ Area
 $V =$ volume
 $T T =$ absolute temperature
 $Q =$ flow rate

Engineering Formula Sheet

Formula: MI for Solid Round = $(PI * \text{Diameter}^4) / 64$.
Deflection = $(\text{Length}^3 * \text{Force}) / (3 * E * MI)$
Bending Stress = $(\text{Force} * \text{Length}) / (MI / (0.5 * \text{Height}))$
Where, $MI =$ Moment of Inertia. $E =$ Modulus of Elasticity in psi.

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$Ax + By + C = 0$ The standard form of the equation is $y = mx + b$, which is also known as the slope-intercept form. The point-slope form is $y - y_1 = m(x - x_1)$
Given two points: slope, $m = (y_2 - y_1)/(x_2 - x_1)$ The angle between lines with slopes m_1 and m_2 is $\alpha = \arctan [(m_2 - m_1)/(1 + m_2 \cdot m_1)]$ Two lines are perpendicular if $m_1 = -1/m_2$.

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