

Mechanical Engineering All Formulas

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Formula: $MI \text{ for Solid Round Beams} = (\pi * (OD^4 - ID^4)) / 64$. 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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Formula Cylindric Geometric Flow Rate: effective area (sq.cm) x piston speed (m/min) L/min = effective area (sq.cm) x piston speed (in/min) gpm = 231 getcalc. Formula Fluid Velocity: Flow Rate (L/min) x 21.22 m/sec = Flow Rate (gpm) x 0.408 ft/sec = D inside diameter of a pipe in mm getcalc.

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Advantage $AMA = \text{Actual Mechanical Advantage}$ $D E = \text{Effort Distance}$ $D R = \text{Resistance Distance}$ $F E = \text{Effort Force}$ $F R = \text{Resistance Force}$ $L = \text{Wedge Length}$ $P = \text{Pulley Systems}$ $N = \text{Total number of strands of a single string supporting the resistance}$ $d = \text{Wheel diameter}$ $D = \text{Axle diameter}$ $IMA = \text{Wheel and Axle}$

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Mechanical Engineering Formulas Pocket Guide

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The American Society of Mechanical Engineers (ASME) currently lists 36 technical divisions, from advanced energy systems and aerospace engineering to solid-waste engineering and textile engineering. The breadth of the mechanical engineering discipline allows students a variety of career options beyond the industries listed above.

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