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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 =

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$(\text{force} * \text{length}) / (MI / (0.5 * \text{height}))$

Where, MI = Moment of Inertia
E = Modulus of Elasticity in psi
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work $F =$ force $d =$ distance Fluid Mechanics 1
 $T = \frac{P}{\rho \cdot g \cdot h}$ Power (Guy-Lussac) $P = \frac{W}{t}$
 $1 = \frac{P_1 V_1}{P_2 V_2}$ Bernoulli's equation $Q = Av$
 $v_1 = A_2 v_2 + V$ absolute pressure = gauge pressure + atmospheric pressure
 $P =$ absolute pressure Force $A =$ Area $V =$ volume
 $T =$ absolute temperature $Q =$ flow rate

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The formula for leverage is as follows:
Weight (W) x Distance (D1) = Force (F) x Distance (D2)
W = Weight. D1 = Distance from fulcrum to weight. F= Force required. D2= Distance from fulcrum to force point. Important

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mechanical formula number three would be the inclined plane.

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