

## Engineering Formulas

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ENGINEERING FORMULAS - ABOUT THE AUTHOR Tyler G. Hicks, P.E., is a consulting engineer and a successful engi-neering book author. He has worked in plant design and operation in a variety of industries, taught at several engineering schools, and lectured both in the United States and abroad. Mr.

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**10 Math Equations that Engineers Should Know - GineersNow**  
Basic Mechanical Engineering Formulas List. All. Beams Deflection of Round Tube. Beam Deflection of Solid Rectangular. Beam Deflection of Solid Round. Aviation Gasoline Fuel Consumption. Potential Flight Time. Trip Fuel Consumption. Push / Pull Hydraulic Cylinder.

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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**  
The design of diagrams for engineering formulas and the theory of nomography by Hewes, Laurence I. (Laurence Ilsley), 1876-1950 ; Seward, Herbert L. (Herbert Lee), b. 1885