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Formula: MI for Solid Rectangular Beam = $(\text{Height}^3 \times \text{Width}) / 12$
Deflection = $(\text{Length}^3 \times \text{Force}) / (3 \times E \times MI)$
Bending Stress = $(\text{Force} \times \text{Length}) / (MI / (0.5 \times \text{Height}))$ Where,
 MI = Moment of Inertia.
 E = Modulus of Elasticity in psi.

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the following subjects-

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Transfer) 2. FM (Fluid

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(Internal Combustion
Engine) 4. MD
(Machine Design) 5.
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Formulas $T F =$

Efficiency $d = d 00$

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 +

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atmospheric pressure P
 F = absolute pressure
Force A = Area V =
volume T T = absolute
temperature Q = flow
rate

Engineering Formula Sheet

q = heat transferred
per unit time (W,
Btu/hr) A = heat
transfer area of the
surface (m^2 , ft^2) h c
= convective heat
transfer coefficient of
the process ($W / (m^2 K)$)

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or W/ (m 2o C), Btu/ (ft
2 h...

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Mechanical work due to a Resultant Force $W = \int \cdot J = \text{N m} = \text{kg m}^2 \text{s}^{-2}$ [M][L]² [T]⁻²:
Work done ON mechanical system,

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Work done BY W ON, W
 $BY = -J = N \cdot m = kg \cdot m$
 $2 \cdot s^{-2} [M][L]^2 [T]^{-2}$:
Potential energy

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In quantum mechanics, the Schrödinger equation is a mathematical equation that describes the changes over time of a physical system in which quantum effects, such as wave-particle duality, are significant. The equation is a

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mathematical formulation for studying quantum mechanical systems. For more details, click [here](#).

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The 'Mechanical Engineering Formulas' contains the basic formulas of

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