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Formula: MI for Solid Rectangular

Beam = ( (Height<sup>3</sup> x Width) / 12)

Deflection = (Length<sup>3</sup> x Force) /

(3 x E x MI) Bending Stress =

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$(\text{Force} \times \text{Length}) / (EI / (0.5 \times \text{Height}))$  Where, MI = Moment of Inertia. E = Modulus of Elasticity in psi.

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y Mechanical Advantage (MA)

IMA = Ideal Mechanical Advantage

AMA = Actual Mechanical

Advantage  $D E = \text{Effort Distance}$

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$D R =$  Resistance Distance  $F E =$  Effort Force  $F R =$  Resistance Force Wedge  $L$  Pulley Systems  $= N$  IMA = Total number of strands of a single string supporting the resistance  $d d$  IMA = Wheel and Axle



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$q$  = 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 ( $W/(m^2 K)$  or  $W/(m^2 \circ C)$ ,  $Btu/(ft^2 h \dots$

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often associated with large machines such as motorcycles, Formula 1 cars or aircraft, but virtually all man-made products have mechanical features that are designed and developed by mechanical engineers.

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