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Rob Thomas - Mechanical Engineering alumni Mechanical Engineering Formula: MI for Solid Rectangular Beam = ( Height 3 x Width ) / 12) Deflection = ( Length 3 x Force ) / ( 3 x E x 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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D E = Effort Distance 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<sup>2</sup>, ft<sup>2</sup>) h c = convective heat transfer coefficient of the process

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Many of the products, processes and technologies that make our world a better place rely on mechanical engineering. It plays an important role across a range of industries including aerospace, manufacturing, medicine, renewable energy and Formula 1.

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A career in engineering can take you all kinds of places - from constructing gravity defying buildings to drilling under the earth or designing one of the fastest cars on the planet! We managed to grab 60 seconds with a Formula 1 Engineer to talk about what it's like to work building world-famous racing cars and how to get into F1.

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