Friday, September 25,2015

Jason

Strength S. Sy, Su inherent property of the object geometry, material

Stress
property of object
State and location
5,2 - shear stress
Un normal

Factor of Safety

The yield strength of hot rolled steel is 220 Mpa. Design Sel Factor Nd = loss-of-function param max allowable param



If the load that will cause failure is between 90 and 110 lbs and you'd like a design factor of 2, what is the max allowable load?

- A. 45 lbs
- B. 50 lbs
- C. 55 lbs

Factor of Sufety Keld Strength Sy Ma= max stress Smax

Table A-17 (Preferred Sizes)

See the "Preferred Sizes" Will pedica page. Link is on the resources tab of the course website. A square cross section rod is loaded axially with a static load of 1000±10 lbs. The strength of the material is 25 kpsi and the desired design factor is 4. Determine the minimum width of the square cross section. Then select a preferred fractional inch size from Table A-17 and report the factor of safety.

W= (1010 165)(4) (25E3 psi) 0.40. 了一分0.4375" Safet Factor od W= 0.4375 - TAX

(2)