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The shearing strength of the bolt is 300 MPa. Solution 117. Problem 118 A 200-mm-diameter pulley is prevented from rotating relative to 60-mm-diameter shaft by a 70-mm-long key, as shown in Fig. P-118. If a torque $T = 2.2$ kN m is applied to the shaft, determine the width b if the allowable shearing stress in the key is 60 MPa. Solution 118

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Solution 1 3-2 Hanging wire of length L . SECTION 1.3 Mechanical Properties of Materials 11. W total weight of tungsten wire T weight density of tungsten 190 kN/m 3 W weight density of sea water 10.0 kN/m 3 A cross-sectional area of wire max 1500 MPa (breaking strength) (a) WIRE HANGING IN AIR W TAL 7900 m. L_{max} smax gT

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Strength = to -weight ratio vitimate stress OF for each material The is obtained from, Table H-3, Appendix H. ged He weght delta 8 is ah seed From Table The strength -4o - weight ratio (feet) le Reses = PURE (lo!

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Strength of materials is a basic engineering subject that, along with statics, must be understood by anyone concerned with the strength and physical performance of structures, whether those structures are man-made or natural. At the college level, mechanics of materials is usually taught during the sophomore and junior years.

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Strength of Materials Solutions. Problem #1 $\sigma_x = 10500$ psi , Tensile $\sigma_y = -5500$ psi $\tau_{xy} = 4000$ psi $\sigma_3 = 0$ Principal stresses- $2 \sigma + \sigma y \cos -\sigma y \sigma 1, \sigma 2 = x \pm + \tau_{xy} 2 2 2$ Substitute values from above yields: $\sigma 1 = 11444$ psi $\sigma 2 = -6444$ psi The maximum shear stress is determined by these two principal stresses as: $\text{Max}(\tau_{max}, 12 , \tau_{max}, 13 , \tau_{max}, 23) \sigma 1 - \sigma 2 \dots$

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Home » Strength of Materials » Chapter 02 » Strain » Thermal Stress. Solution to Problem 268 Thermal Stress Solution 268. Click here to show or hide the solution. Contraction of steel rod, assuming complete freedom. $\delta_{(st)} = \alpha \Delta T L$

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