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*under compressive  
stress. Compressive force will tend to  
shorten the member. Tension force  
on the other hand will tend to*

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*lengthen the member. =  $m = 64 \text{ kg}$   
=  $6 \text{ Mg}$  Forces parallel to the area  
resisting the force cause shearing  
stress.*

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*area of the material. If the force is going to pull the material, the stress is said to be tensile stress and compressive stress develops when the material is being compressed by two opposing forces. Shear stress is developed if the applied force is parallel to the resisting area. Example is the bolt that holds the tension rod in its anchor.*

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*The shear strength is 350 MN/m<sup>2</sup>.*

*Solution 115 fProblem 116 As in Fig. 1-11c, a hole is to be punched out of a plate having a shearing strength of 40 ksi. The compressive stress in the punch is limited to 50 ksi. (a)*

*Compute the maximum thickness of plate in which a hole 2.5 inches in diameter can be punched.*

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*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.*

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*answer Strength of Materials 4th Edition by Pytel and Singer Problem 121 page 18 Given: Allowable*

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*shearing stress in the pin at B =  
4000 psi Allowable axial stress in the  
control rod at C = 5000 psi*

*Diameter of the pin = 0.25 inch*

*Diameter of control rod = 0.5 inch*

*Pin at B is at single shear Required:*

*The maximum force P that can be  
applied by the operator Solution 121*

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*diameter shaft by a 70-mm-long key,  
as shown in Fig. P-118.*

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shearing stress in the pin at B =  
4000 psi Allowable axial stress in the  
control rod at C = 5000 psi  
Diameter of the pin = 0.25 inch  
Diameter of control rod = 0.5 inch  
Pin at B is at single shear Required:  
The maximum force P that can be  
applied by the operator Solution 121*

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Solution 117. Problem 118 A 200-*

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shearing stress in the pin at B =  
4000 psi Allowable axial stress in the  
control rod at C = 5000 psi  
Diameter of the pin = 0.25 inch  
Diameter of control rod = 0.5 inch  
Pin at B is at single shear Required:  
The maximum force P that can be  
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