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and Singer Problem  
115 page 16. Given.  
Required diameter of  
hole = 20 mm Thickness  
of plate = 25 mm  
Shear strength of plate  
= 350 MN/m. 2.

Required: Force  
required to punch a  
20-mm-diameter hole.  
Solution 115. The  
resisting area is the  
shaded area along the  
perimeter and the  
shear force  $V$  is equal to  
the punching force  $P$ .

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The civil engineering  
material or

construction materials

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being used are wood, concrete, steel etc. and this subject takes care of all of these things and study these materials strength via strain, stress, bending, buckling, torsion and other similar phenomenon.

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and structures: by john  
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Simple Stresses.

Simple stress can be  
classified as normal  
stress, shear stress,  
and bearing stress. ...

Another... Normal  
Stress. Stress. Stress is  
the expression of force  
applied to a unit area

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of surface. ... Stress is  
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strength of structures.  
Consideration is given  
to actual operating  
conditions, problems of  
crack resistance and  
theories of failure, the  
theory of oscillations of  
real mechanical  
systems ...

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Strength of Materials  
4th Edition by Pytel  
and Singer Problem  
203 page 39. Given:  
Material: 14-mm-  
diameter mild steel rod  
Gage length = 50 mm  
Test Result: Load Load  
(N) Elongation (mm)  
Elongation (mm) (N) 0  
0 46 200 1.25 6 310  
0.010 52 400 2.50 12

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600	0.020	58	500	4.50
18	800	0.030	68	000
7.50	25	100	0.040	59
000	12.5	31	300	0.050
67	800	15.5	37	900
0.060	65	000	20.0	40
100	0.163	65	500	...

## **Strength of Materials 4th Edition by Pytel and Singer**

...

Strength of materials,  
also called mechanics  
of materials, deals with  
the behavior of solid  
objects subject to

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stresses and strains. The complete theory began with the consideration of the behavior of one and two dimensional members of structures, whose states of stress can be approximated as two dimensional, and was then generalized to three dimensions to develop a more complete theory of the ...

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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

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tension rod in its  
anchor.

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questions about  
Strength of Materials,  
please sign up. Recent  
Questions a bronze  
sleeve is slipped over a  
steel bolt and held in  
place by a nut that is  
tightened to produce  
an initial stress of 2000

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psi in the bronze. Find the stress in each material after the temperature of the assembly is increased by 100 degree F. The ...

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ecf8427e.