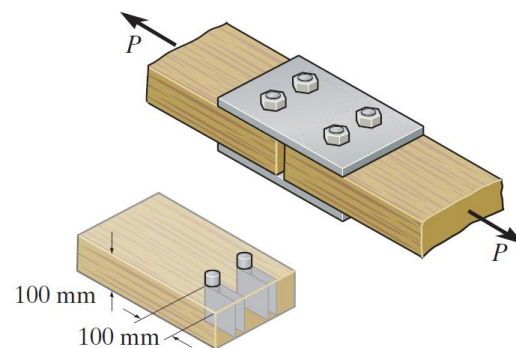
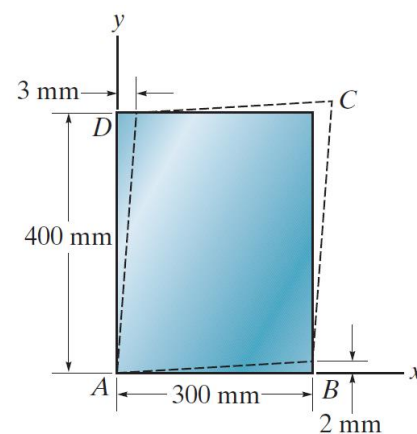


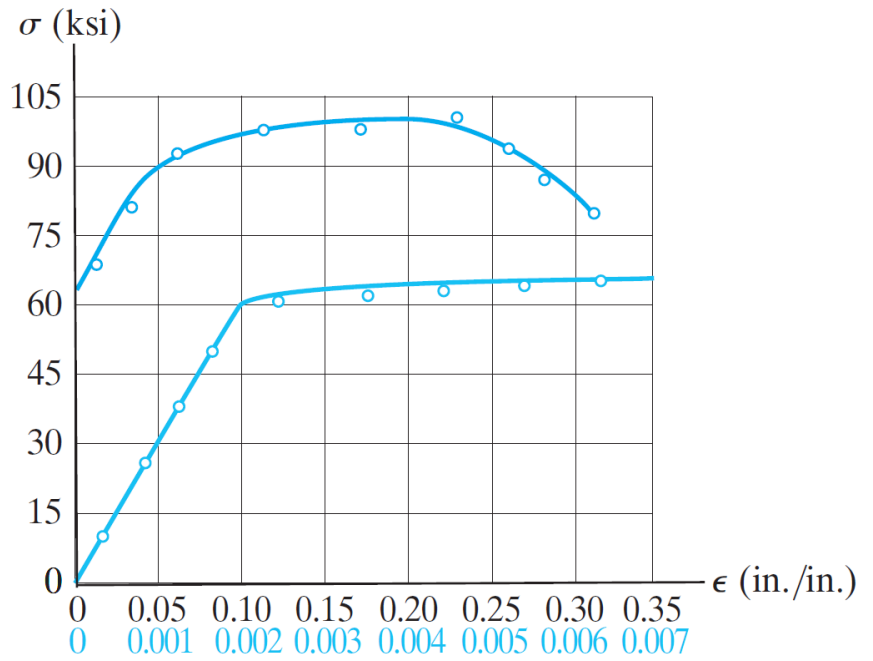
- 1) GIVEN: Joint shown subjected to an axial force of 9kN  
 REQ'D: Average shear stress developed in each of the 6-mm  
 Average shear stress developed on shaded planes in wood.



- 2) GIVEN: The piece of rubber is originally rectangular and subjected to the deformation shown by the dashed lines.  
 REQ'D: Average shear strain at A and C if the corners B and D are subjected to the displacements shown.



- 3) GIVEN: Stress-strain Diagram for a steel specimen.  
 REQ'D: Modulus of resilience  
 modulus of toughness



- 4) GIVEN: The thin-walled tube elongates 3 mm and its circumference decreases by 0.09 mm when it is subjected to an axial force of 40 kN.  
 REQ'D: Modulus of elasticity, Poisson's ratio, and shear modulus.  
 Note: The material behaves elastically.

