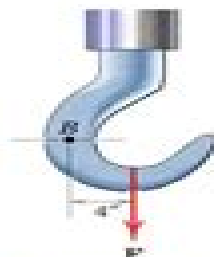


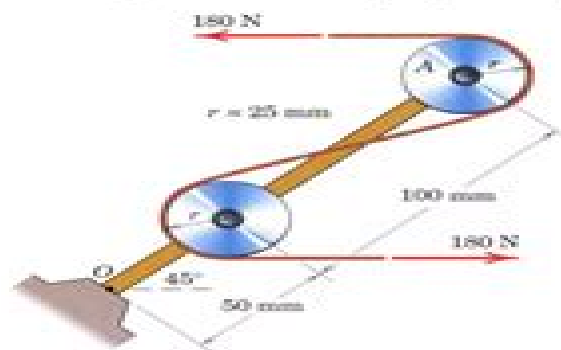
## Representative Problems

- 2/61** In the design of the lifting hook the action of the applied force  $\mathbf{F}$  at the critical section of the hook is a direct pull at  $B$  and a couple. If the magnitude of the couple is 4000 lb-ft, determine the magnitude of  $\mathbf{F}$ .  
 Ans.  $F = 12,000$  lb



Problem 2/61

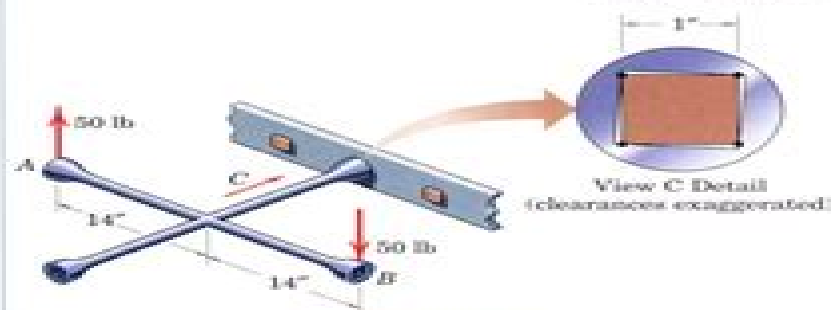
- 2/62** The system consisting of the bar  $OA$ , two identical pulleys, and a section of thin tape is subjected to the two 180-N tensile forces shown in the figure. Determine the equivalent force-couple system at point  $O$ .



Problem 2/62

- 2/63** A lug wrench is used to tighten a square-head bolt. If 50-lb forces are applied to the wrench as shown, determine the magnitude  $F$  of the equal forces exerted on the four contact points on the 1-in. bolt head so that their external effect on the bolt is equivalent to that of the two 50-lb forces. Assume that the forces are perpendicular to the flats of the bolt head.

Ans.  $F = 700$  lb



Problem 2/63

- 2/64** The inspection door shown is constructed of sheet steel which is  $\frac{1}{8}$  in. thick. Determine the force-couple system located at the hinge center  $O$  which is equivalent to the weight of the door. State any assumptions.



Problem 2/64

# Engineering Mechanics Meriam Answers

**PT Brinkman**



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