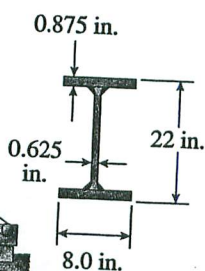
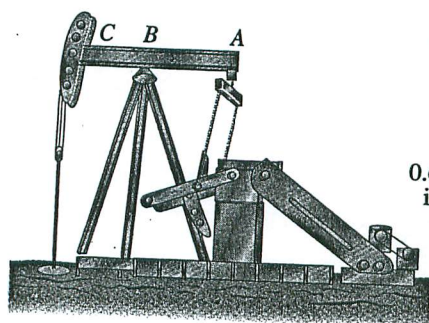


s occupied by  
The center of

**5.5-9** The horizontal beam  $ABC$  of an oil-well pump has the cross section shown in the figure. If the vertical pumping force acting at end  $C$  is  $9\text{ k}$  and if the distance from the line of action of that force to point  $B$  is  $16\text{ ft}$ , what is the maximum bending stress in the beam due to the pumping force?



**5.5-12** A small dam of vertical wood beams  $A$  in the figure. Consider the top and bottom. Determine the maximum bending stress in the beam assuming that the weight

