

 $A_x = A_{\Sigma}$

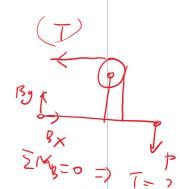
 \mathcal{B}_{\times}

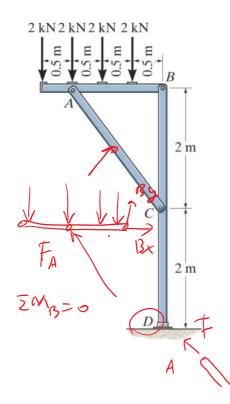
Find the force in the cable fastening the frame to the wall.

Which FBD would be the most

useful?

- (A) The pulley
- (B) The T-beam
- (The Cable
- √ (D) T-beam + pulley
 - (E) T-beam + pulley + cable



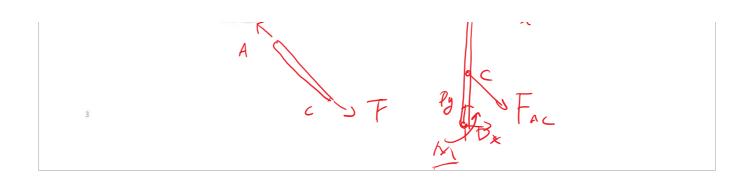


Find the force in member AC.

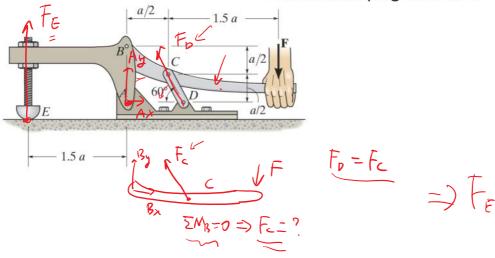
Which FBD would be the most useful?

- (A) Beam AB
- (B) Beam AC
- ★ (C) Beam CD
 - (D) The whole assembly
 - (E) None of the above

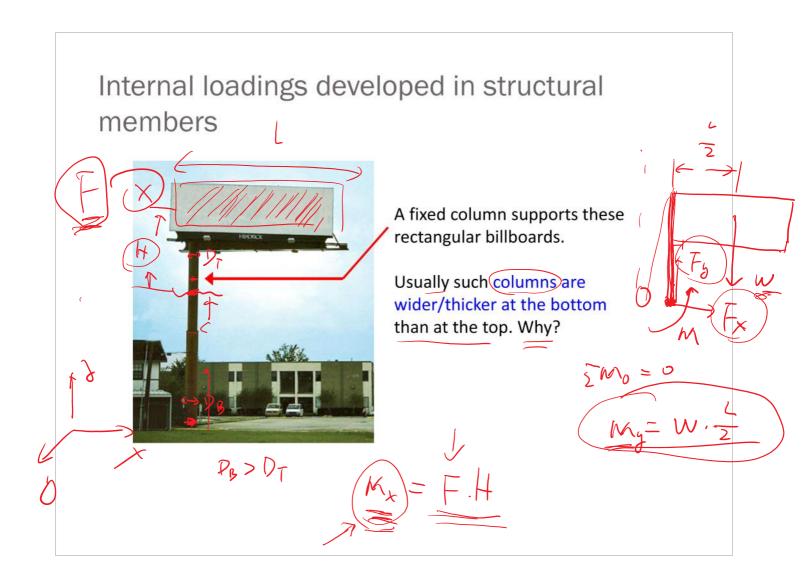




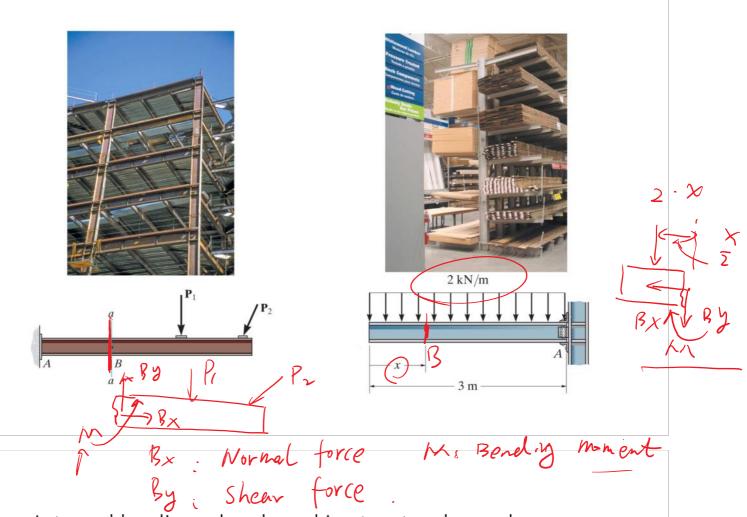
Find the clamping force at *E*.



ν.



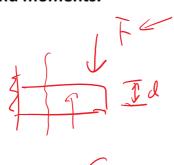
Internal loadings developed in structural members

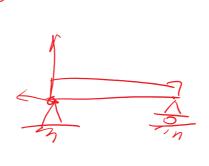


Internal loadings developed in structural members

Structural Design: need to know the loading acting within the member in order to be sure the material can resist this loading

Cutting members at internal points reveal **internal forces** and moments.







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