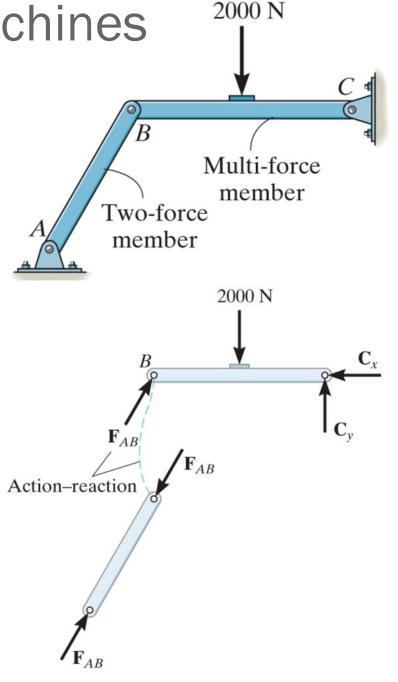
Announcements

- CBTF Quiz 4 next week (10/17-20)
- Do HW14 on Prairie Learn to prepare for Quiz 4
- Have you checked your grades on Compass yet?
- ☐ Upcoming deadlines:
- Friday (10/13) TODAY!
 - WA #2
- Wednesday (10/18)
 - PL HW14



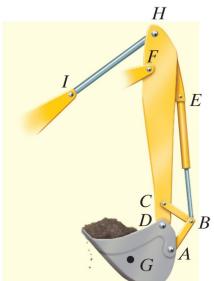
Recap: Frames and machines

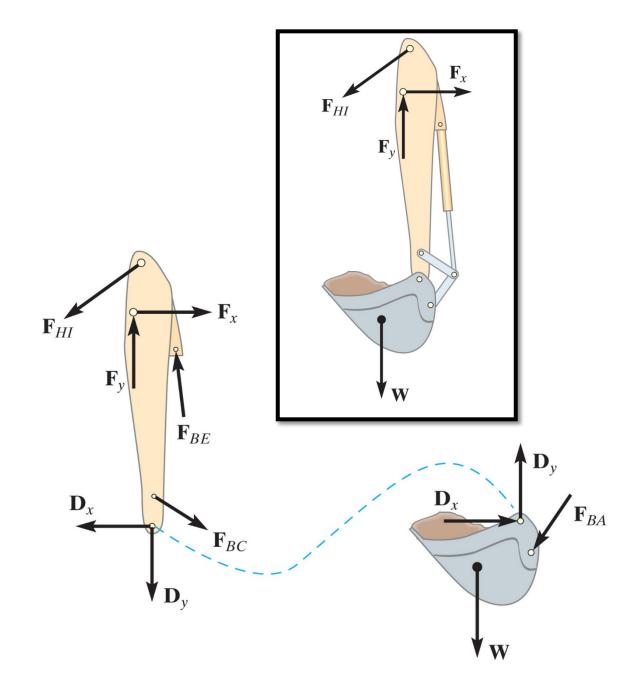
The members can be truss elements, beams, pulleys, cables, and other components. The general solution method is similar to rigid body at equilibrium analysis:



Recap

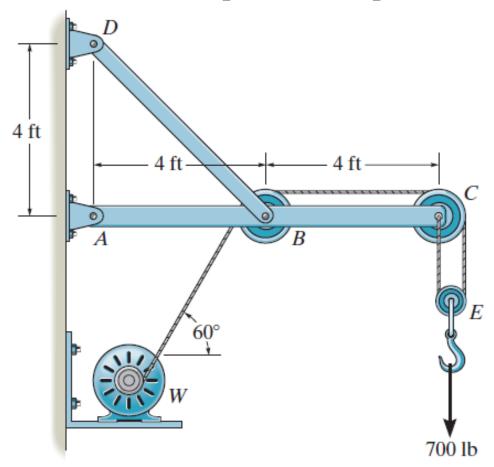




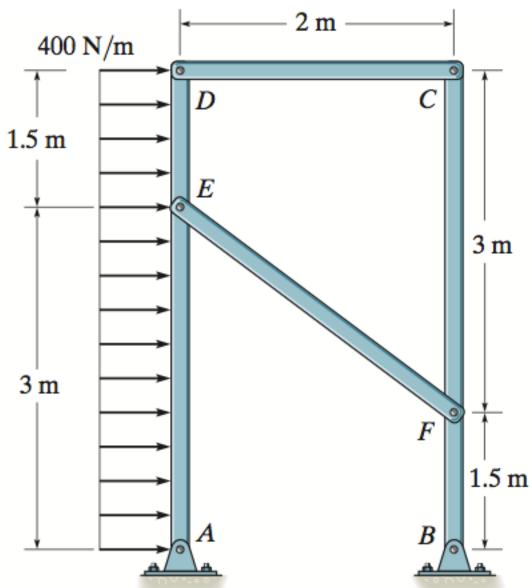


Given: The wall crane supports an external load of 700 lb.

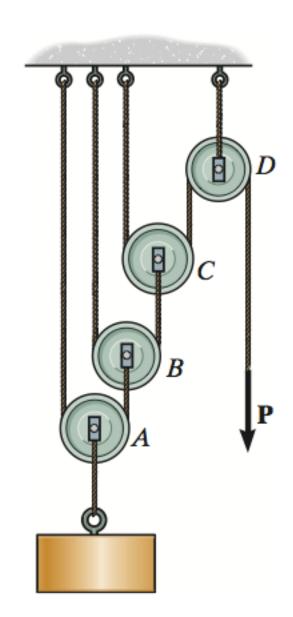
Find: The force in the cable at winch motor W and the horizontal and vertical components of pin reactions at C on beam ABC.



Determine the horizontal and vertical components of force which pin B exert on the frame.



Determine the force **P** required to hold the 100-lb weight in equilibrium.



Given: The pumping unit used to recover oil has force F acting in the wireline at the well head. The pitman, AD, is pin connected at its ends and has negligible weight.

Find: the torque M which must be exerted by the motor in order

