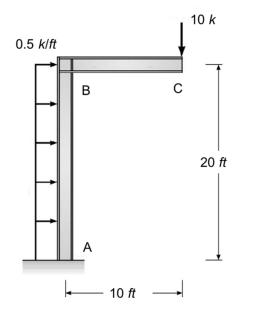
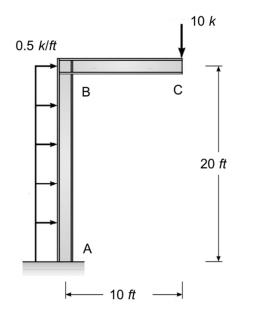
Example 8c-1: Compute the vertical deflection and rotation at point C on the frame shown. Include only the effects of the bending moment in your virtual work equations. Assume E = 29,000 ksi and $I = 1,000 \text{ in}^4$.

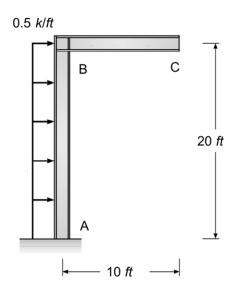
Real loads



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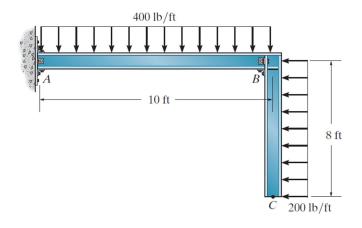


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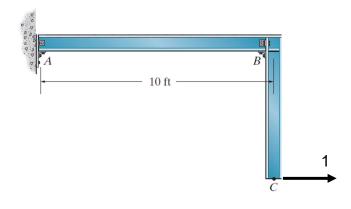


Example 8c-2: Determine the horizontal displacement at point C. Assume *EI* is constant.

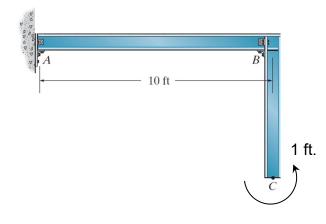
Real loads



Example 8c-2: Determine the horizontal displacement at point C. Assume *EI* is constant.

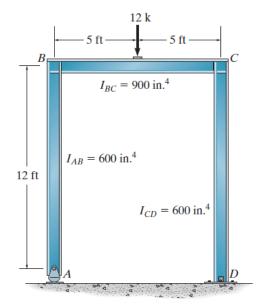


Example 8c-2: Determine the horizontal displacement at point C. Assume *EI* is constant.



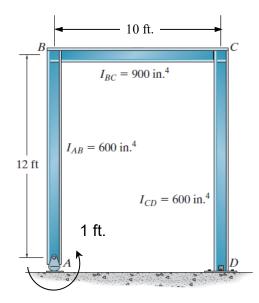
Example 8c-3: Determine the slope at point A. Assume E = 29,000 ksi.

Real Loads



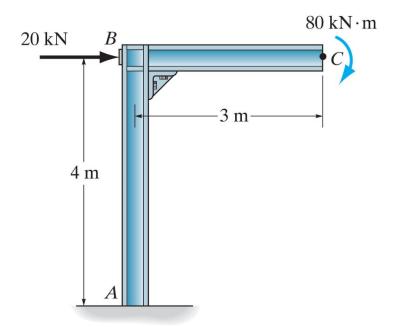
Example 8c-3: Determine the slope at point A. Assume E = 29,000 ksi.

Virtual couple

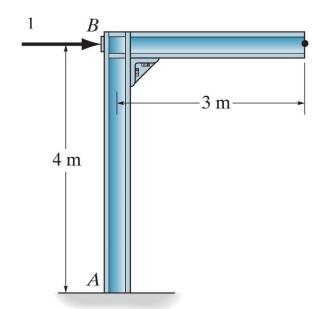


Example 8c-4: Compute the horizontal deflection at point *B* on the frame shown. Include only the effects of the bending moment in your virtual work equations.

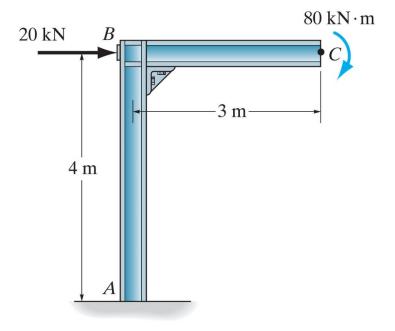




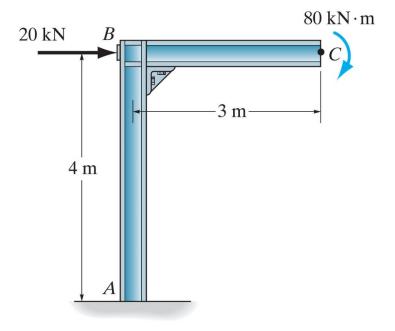
Example 8c-4: Compute the horizontal deflection at point *B* on the frame shown. Include only the effects of the bending moment in your virtual work equations.



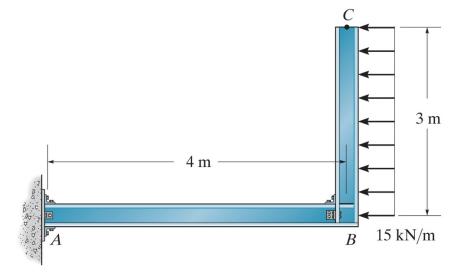
Example 8c-5: Compute the slope at point *C* on the frame shown. Include only the effects of the bending moment in your virtual work equations.



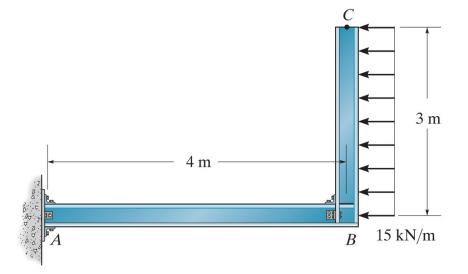
Example 8c-5: Compute the slope at point *C* on the frame shown. Include only the effects of the bending moment in your virtual work equations.



Example 8c-6: Compute the vertical displacement at point *C* on the frame shown. Include only the effects of the bending moment in your virtual work equations.



Example 8c-6: Compute the vertical displacement at point *C* on the frame shown. Include only the effects of the bending moment in your virtual work equations.



Example 8c-6: Compute the vertical displacement at point *C* on the frame shown. Include only the effects of the bending moment in your virtual work equations.

