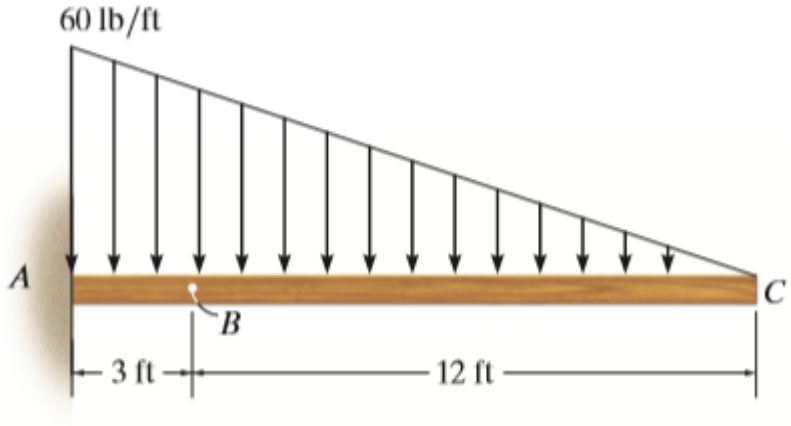
- Homework1: 1-5, 1-9, 1-17, 1-26
  *State ALL your answers even if the answer is zero.

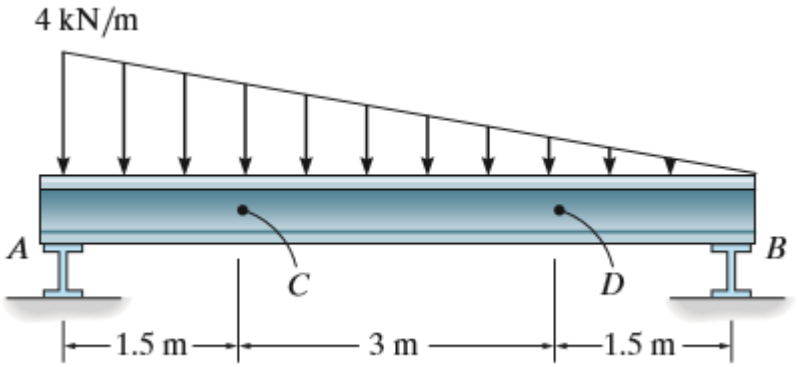
1–5.

Determine the resultant internal loadings acting on the cross section at point B.



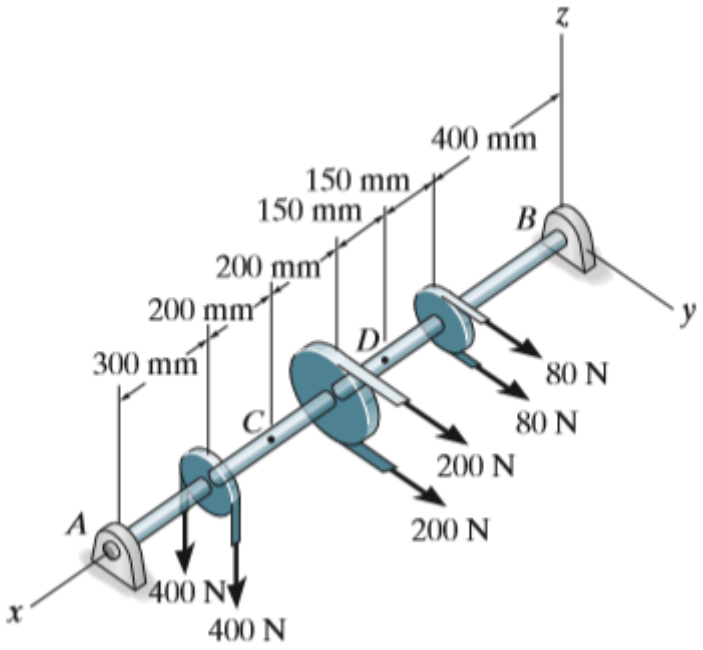
1–9.

The beam supports the distributed load shown. Determine the resultant internal loadings acting on the cross section at point D. Assume the reactions at the supports A and B are vertical.



1–17.

The shaft is supported at its ends by two bearings A and B and is subjected to the forces applied to the pulleys fixed to the shaft. Determine the resultant internal loadings acting on the cross section at point D. The 400-N forces act in the $-z$ direction and the 200-N and 80-N forces act in the $+y$ direction. The journal bearings at A and B exert only y and z components of force on the shaft.



1–26.

Determine the resultant internal loadings acting on the cross section of the frame at points F and G. The contact at E is smooth.