

FIGURE P8.38

P8.39 The beam shown in Figure P8.39 will be constructed from a standard steel W-shape, with an allowable bending stress of 165 MPa.

- Develop a list of four acceptable shapes that could be used for this beam. Include the most economical W360, W410, W460, and W530 shapes on the list of possibilities.
- Select the most economical W shape for this beam.

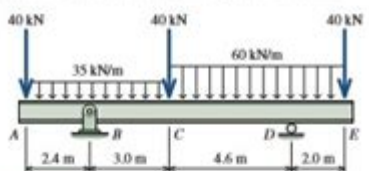


FIGURE P8.39

P8.40 The beam shown in Figure P8.40 will be constructed from a standard steel W-shape, with an allowable bending stress of 165 MPa.

- Develop a list of four acceptable shapes that could be used for this beam. Include the most economical W310, W360, W410, and W460 shapes on the list of possibilities.

- Select the most economical W shape for this beam.

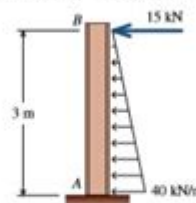


FIGURE P8.40

P8.41 The beam shown in Figure P8.41 will be constructed from a standard steel HSS-shape, with an allowable bending stress of 30 ksi.

- Develop a list of three acceptable shapes that could be used for this beam. On this list, include the most economical HSS8, HSS10, and HSS12 shapes.
- Select the most economical HSS-shape for this beam.

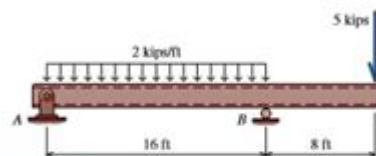


FIGURE P8.41

8.6 Flexural Stresses in Beams of Two Materials

Many structural applications involve beams made of two materials. These types of beams are called **composite beams**. Examples include wood beams reinforced with steel plates



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P1.1 A steel bar of rectangular cross section, 15 mm by 60 mm, is loaded by a compressive force of 110 kN that acts in the longitudinal direction of the bar. Compute the average normal stress in the bar. Solution The cross-sectional area of the steel

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