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CHAPTER 8. P P PROBLEM 8.1. A W10 39 rolled-steel beam supports a load P as shown. Knowing that A D P 45 kips, a 10 in., and all 18 ksi, determine (a) the maximum value of B C the normal stress m in the beam, (b) the maximum value of the principal stress 10 ft max at the junction of the flange and web, (c) whether the specified shape is a a acceptable as far as these two stresses are concerned.

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8 ft. 5 ft. 5 ft. 6 ft.  $P \bullet 8 - 13$ . The coefficient of static friction between the drum and brake bar is. If the moment , determine the smallest force  $P$  that needs to be applied to the brake bar in order to prevent the drum from rotating.

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