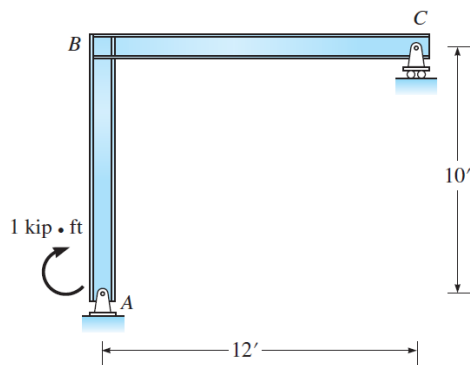
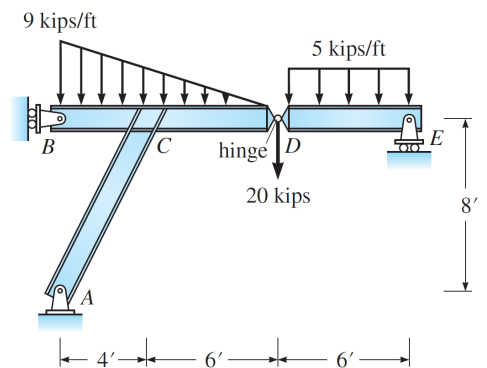


Homework Set 1

Problem 1. Determine the reactions of the following structures. All dimensions are measured from the centerline of members.

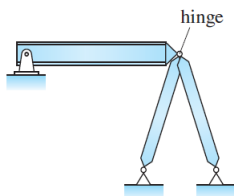


(a)

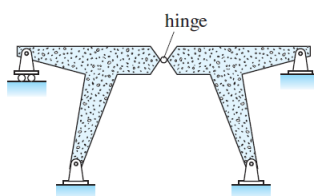


(b)

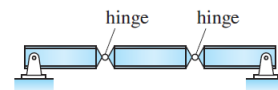
Problem 2. Classify the structures below. Indicate if stable or unstable. If unstable, indicate the reason. If the structure is stable, indicate if determinate or indeterminate. If indeterminate, specify the degree.



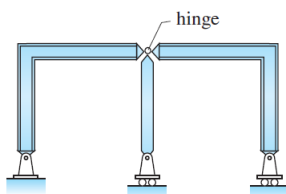
(a)



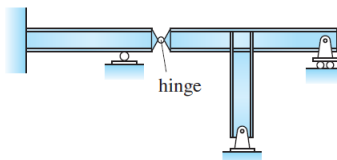
(b)



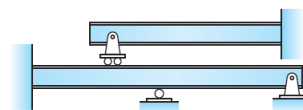
(c)



(d)

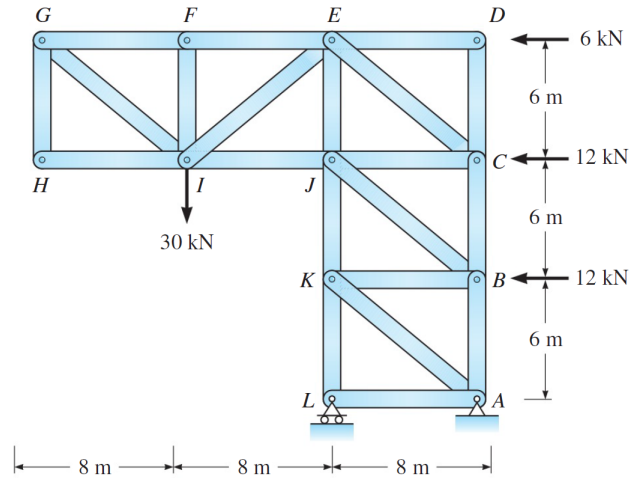


(e)



(f)

Problem 3. Using the method of joints, determine the force in all truss bars. Indicate tension or compression.



Problem 4. Using the method of sections, determine the forces in the bars EF, EI, ED, FH, and IJ.

