

PROBLEM 10.1

10.1.1. The figure shows a beam of length L and weight W supported by a hinge at the left end and a cable at the right end. The cable is attached to the wall at a height h above the right end of the beam. The beam makes an angle θ with the horizontal. Find the tension in the cable and the reaction forces at the hinge.



PROBLEM 10.2

10.2.1. A beam of length L and weight W is supported by a hinge at the left end and a cable at the right end. The cable is attached to the wall at a height h above the right end of the beam. The beam makes an angle θ with the horizontal. Find the tension in the cable and the reaction forces at the hinge.

10.2.2. A beam of length L and weight W is supported by a hinge at the left end and a cable at the right end. The cable is attached to the wall at a height h above the right end of the beam. The beam makes an angle θ with the horizontal. Find the tension in the cable and the reaction forces at the hinge.

10.2.3. A beam of length L and weight W is supported by a hinge at the left end and a cable at the right end. The cable is attached to the wall at a height h above the right end of the beam. The beam makes an angle θ with the horizontal. Find the tension in the cable and the reaction forces at the hinge.

10.2.4. A beam of length L and weight W is supported by a hinge at the left end and a cable at the right end. The cable is attached to the wall at a height h above the right end of the beam. The beam makes an angle θ with the horizontal. Find the tension in the cable and the reaction forces at the hinge.

10.2.5. A beam of length L and weight W is supported by a hinge at the left end and a cable at the right end. The cable is attached to the wall at a height h above the right end of the beam. The beam makes an angle θ with the horizontal. Find the tension in the cable and the reaction forces at the hinge.

10.2.6. A beam of length L and weight W is supported by a hinge at the left end and a cable at the right end. The cable is attached to the wall at a height h above the right end of the beam. The beam makes an angle θ with the horizontal. Find the tension in the cable and the reaction forces at the hinge.

10.2.7. A beam of length L and weight W is supported by a hinge at the left end and a cable at the right end. The cable is attached to the wall at a height h above the right end of the beam. The beam makes an angle θ with the horizontal. Find the tension in the cable and the reaction forces at the hinge.