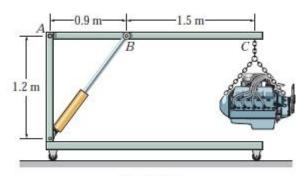
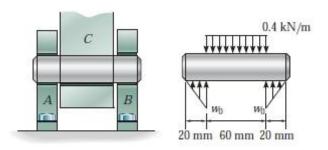
Exercise

The engine crane is used to support the engine, which has a weight of 1200 kg. Draw the shear and moment diagrams of the boom ABC when it is in the horizontal position.



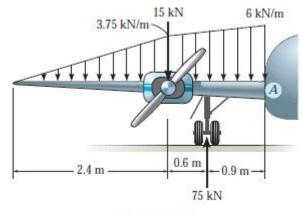
Prob. 6-3

The smooth pin is supported by two leaves A and B and subjected to a compressive load of 0.4 kN/m caused by bar C. Determine the intensity of the distributed load w_0 of the leaves on the pin and draw the shear and moment diagramfor the pin.



Prob. 6-32

The dead-weight loading along the centerline of the airplane wing is shown. If the wing is fixed to the fuselage at A, determine the reactions at A, and then draw the shear and moment diagram for the wing.



Prob. 6-38

Exercise from Hibbeler, R.C, 2011, *Mechanics of Materials* (SI Units), 8th Edition, Singapore: Prentice Hall.