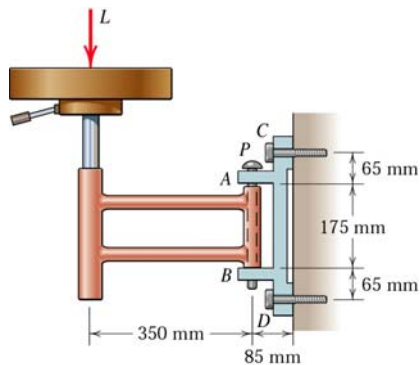


การบ้าน Mechanics I, section 4 (ส่ง 13 ก.ค. 2552 ในชั่วโมงเรียน)

The elements of a wall-mounted swing-away stool are shown in the figure. The hinge pin P fits loosely through the frame tube, and the frame tube has a slight clearance between the supports A and B . Determine the reactions on the frame tube at A and B associated with the weight L of an 80-kg person. Also, calculate the changes in the horizontal reactions at C and D due to the same load L . State any assumptions. (J.L.Meriam & L.G.Kraige, Engineering Mechanics Statics 5th edition, Prob.3/38)



การบ้าน Mechanics I, section 4 (ส่ง 13 ก.ค. 2552 ในชั่วโมงเรียน)

The frame ACD is supported by ball-and-socket joints at A and D and by a cable that passes through a ring at B and is attached to hooks at G and H . Knowing that the frame supports at point C a load of magnitude $P = 150$ N, determine the tension in the cable. (Ferdinand P. Beer, E. Russell Johnston, Jr. and Elliot R. Eisenberg, Vector Mechanics for Engineers 8th edition, Prob.4/144)

