King Fahd University of Petroleum & Minerals
CIVIL ENGINEERING DEPARTMENT

CE 201 STATICS (Section **8**)
Second Semester 1424-25 / 2004 (**032**)

H.W. # 4

Due on Sunday 23-1-1425 / 14-3-2004 **(any time)**

Deadline for submission: Monday 24-1-1425 / 15-3-2004 (**before you sit in class**)

1- Solve problem 3-53 (p.106) in the textbook, but let the 7.25-m dimension be 8 m and the 300-kg mass be 500 kg. [Sec. 3.4] (20 pts.)

2- Solve problem 3-59 (p.107) in the textbook, but let the 200-lb crate be 180 lb and $y = 7$ ft. [Sec. 3.4] (20 pts.)

3-* Solve problem 3-67 (p.109) in the textbook, but let the 50-kg crate be 80 kg. [Sec. 3.4] (25 pts.)

4-* Solve problem 4-15 (p.130) in the textbook, but let the 12-ft dimension be 10 ft, the 45° angle be 50°, and $P = 50$ lb. [Secs. 4.1-4.4] (15 pts.)

5- In Fig. P5 below, the tension in CD is 200 N. Determine the moment of T_{CD} about point A and the *perpendicular* distance from A to CD. [Secs. 4.1-4.4] (20 pts.)

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* You can discuss the solutions of these problems with your colleagues or other students, but ***at the end you have to solve and understand them yourself.*** <u>You have to do the other problems by yourself only</u>. *Of course you can seek my help anytime in the homework and in anything else.*

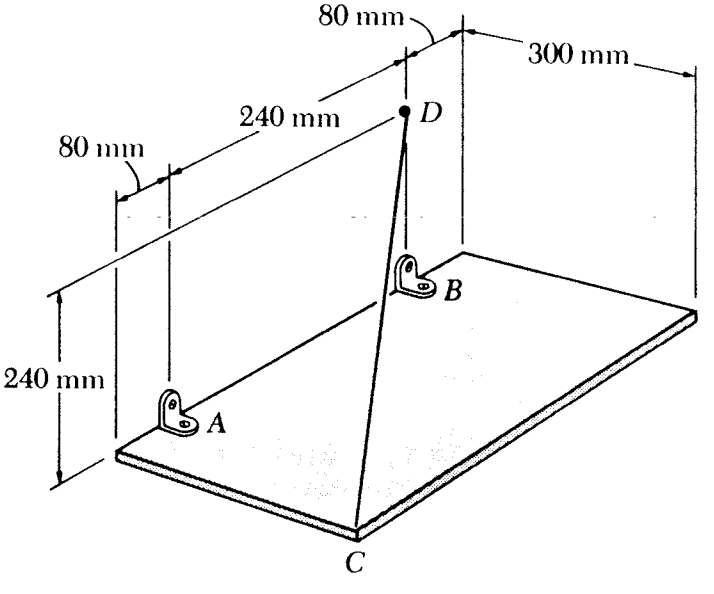

Fig. P5

Review the <u>guidelines for submitting homework assignments</u> given to you in class BEFORE you start solving and writing the homework. DO <u>NOT</u> SUBMIT THE HOMEWORK IF YOU DO NOT FOLLOW THESE GUIDELINES.