

King Fahd University of Petroleum & Minerals
CIVIL ENGINEERING DEPARTMENT

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

H.W. # 5

Due on Sunday 30-1-1425 / 21-3-2004 (any time)

Deadline for submission: Monday 1-2-1425 / 22-3-2004 (**before you sit in class**)

- 1- Solve problem 4-60 (p.146) in the textbook, but let the 2-ft dimension be 5 ft. [Sec. 4.5] (20 pts.)
- 2- Solve problem 4-83 (p.157) in the textbook, but let the 60-lb forces be 80 lb and the 30° angles be 40°. [Sec. 4.6] (15 pts.)
- 3-* In Fig. P3 below, determine the resultant couple. [Sec. 4.6] (20pts.)
- 4- Solve problem 4-105 (p.174) in the textbook, but let the 3-m dimension be 4 m and the 45° angle be 50°. [Secs. 4.7,4.8] (15 pts.)
- 5-* In Fig. P5 below, replace the three forces by an equivalent force-couple system at A. [Secs. 4.7,4.8] (30 pts.)

* 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**. You have to do the other problems by yourself only. *Of course you can seek my help anytime in the homework and in anything else.*

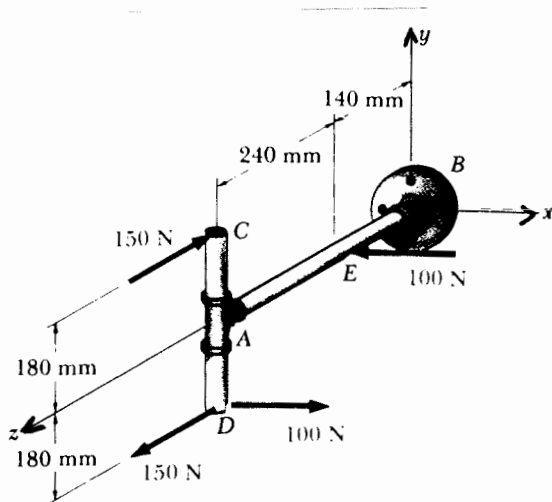


Fig. P3

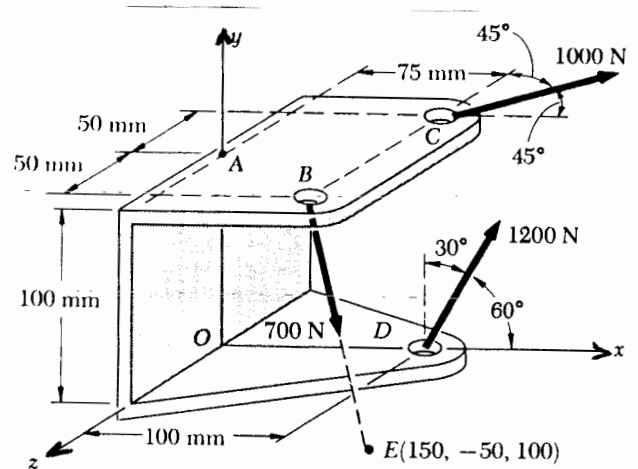


Fig. P5

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