

King Fahd University of Petroleum & Minerals  
**CIVIL ENGINEERING DEPARTMENT**

**CE 201 STATICS** (Section 9)  
 First Semester 1427-28 / 2006-07 (061)

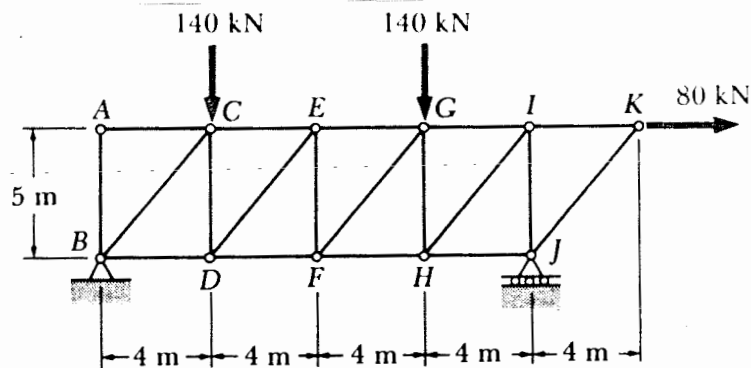
**H.W. # 9**

**Due** on Sunday 5-11-1427 / 26-11-2006 (any time)

**Deadline** for submission: Monday 6-11-1427 / 27-11-2006 (before you sit in class)

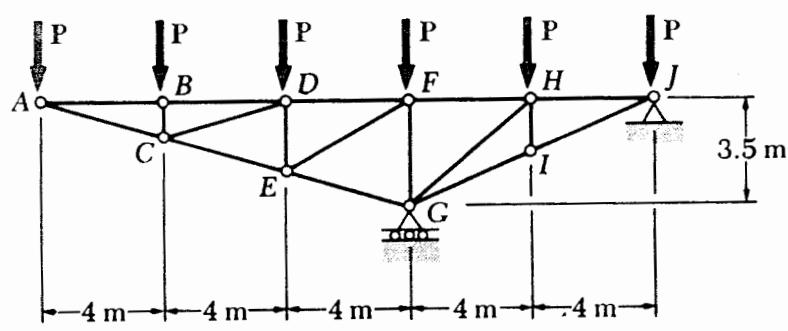
- 1) In the *truss* shown in Fig. P1, determine the force in member *EF* using the **method of sections**. [Sec. 6.4] (15 pts.)
- 2) In the *truss* shown in Fig. P2, determine the force in member *EG* using the **method of sections**. [Sec. 6.4] (15 pts.)
- 3) In the *truss* shown in Fig. P3, determine the force in members *FK* and *JO* using the **method of sections**. [Sec. 6.4] (20 pts.)
- 4) Determine the components of the forces acting on each member of the *frame* shown in Fig. P4. [Sec. 6.6] (25 pts.)
- 5) In the *frame* shown in Fig. P5, determine the forces acting on members *AE* and *BF*. [Sec. 6.6] (25 pts.)

Fig. P1



$P = 35 \text{ kN}$

Fig. P2



**Do your work yourself!!** Remember that the homework carries 20% of the course grade; in addition, *solving it is the best way to understand the subject.* Of course, you can seek my help anytime in the homework as well as in anything else.

As an engineer, 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.** Cheating, copying, etc. is .....!!!!!!

Fig. P3

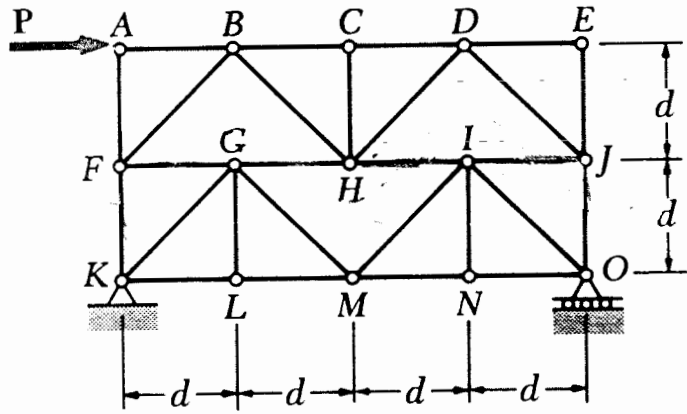


Fig. P4

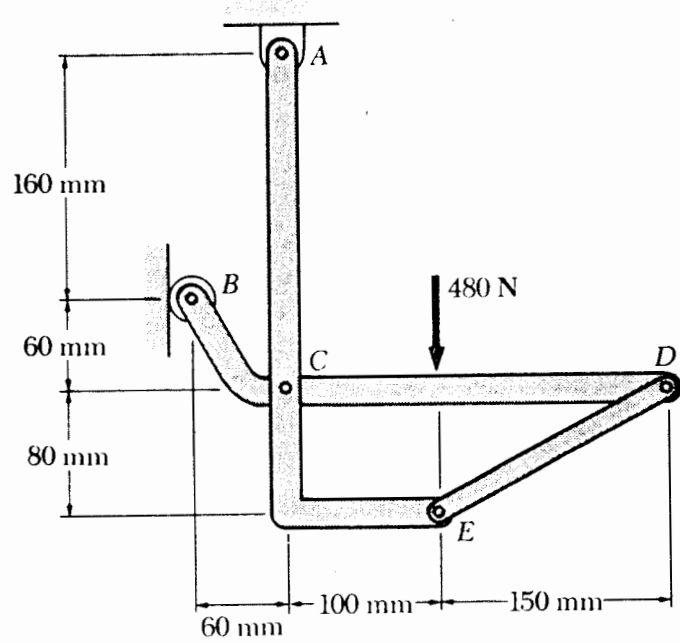


Fig. P5

