

Home Work 02 – Structural Analysis by Matrix Method

Engineering Mechanics IV

Lecture : Pramudiyanto, M.Eng.

Instruction :

Otherwise stated, do all this assignment on MS Excel (or any spreadsheet software available). The due date of this assignment is on Dec 10th 2012. Send it through my drop box at <http://dropitto.mc/pramudiyanto> (pass:pramudiyanto)

1. Compute the displacements, reactions, and element forces for the trusses shown below. Cross-sectional area (in mm^2) are shown in each bar. Knowing that modulus of elasticity, $E = 200,000 \text{ MPa}$.

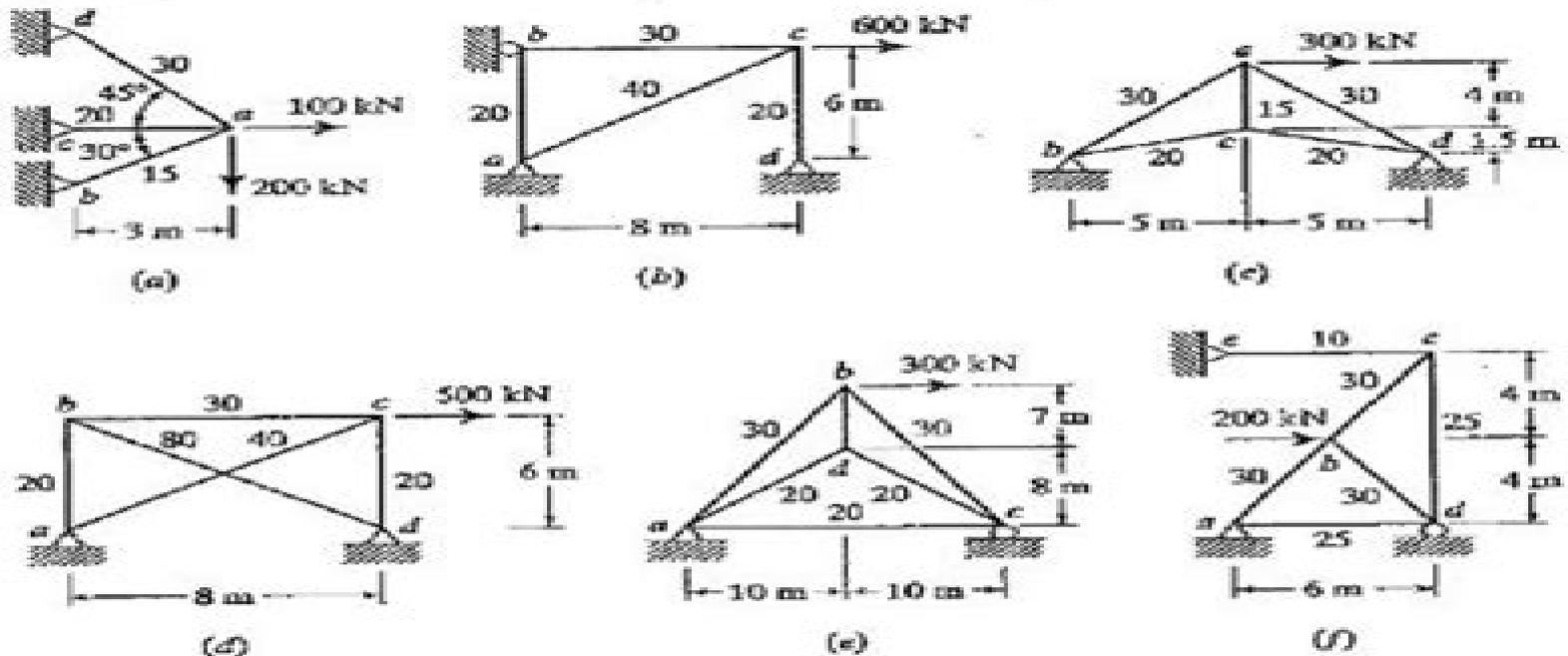


Figure 1. Assignment no 1

2. The areas of bars ab and ac in $\text{mm}^2 \times 10^3$ are as indicated. A varies from 0 to $40 \times 10^3 \text{ mm}^2$. (a) plot the variation in the force in each bar versus A . (b) If the allowable stress is 140 MPa, for approximately what value of A does the system have the highest ratio of load-carrying capacity to weight? Assume the same material is used for all three bars.

Structural Analysis Matrix Method

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