

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, $E = 200,000 \text{ MPa}$.

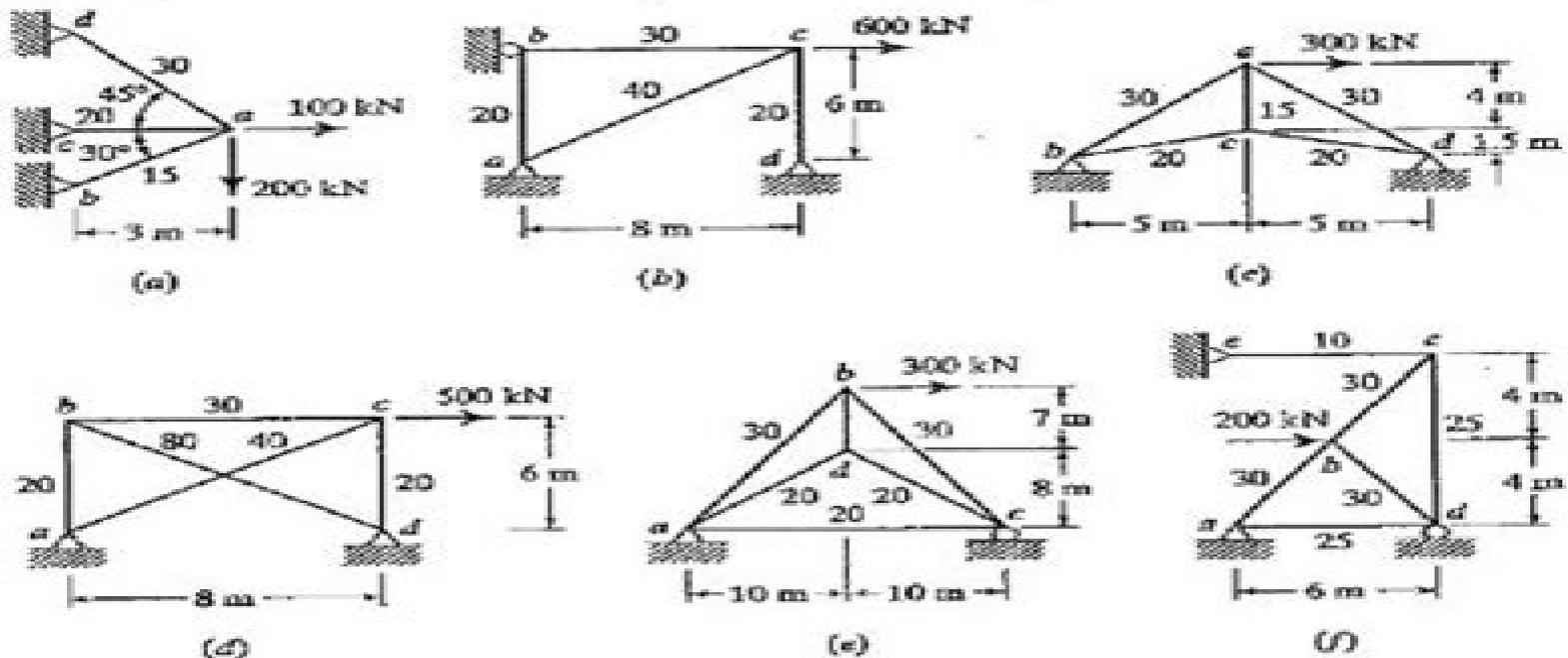


Figure 1. Assignment no 1

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

Emilie Sanchez



Structural Analysis Matrix Method:

Whispering the Techniques of Language: An Psychological Quest through **Structural Analysis Matrix Method**

In a digitally-driven world where screens reign great and quick connection drowns out the subtleties of language, the profound secrets and emotional nuances concealed within phrases usually get unheard. Yet, nestled within the pages of **Structural Analysis Matrix Method** a interesting fictional value sporting with natural thoughts, lies an exceptional quest waiting to be undertaken. Composed by a skilled wordsmith, that wonderful opus invites readers on an introspective trip, gently unraveling the veiled truths and profound affect resonating within the very material of each and every word. Within the emotional depths with this touching evaluation, we can embark upon a sincere exploration of the book is key styles, dissect their interesting publishing model, and yield to the strong resonance it evokes deep within the recesses of readers hearts.

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