

# 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 10<sup>th</sup> 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  $\text{mm}^2$ ) 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

**Jin-Ying Zhang**



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