

# 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.me/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

**Ronald L. Sack**



## **Structural Analysis Matrix Method:**

## **Structural Analysis Matrix Method** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Structural Analysis Matrix Method**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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