

tu je  $\ominus$  je je  $\Delta t$  sa gornje strane a  
M diagram sa dole.

$$\delta_{it}^* = EI_c \cdot \int (M_i \delta t \cdot \frac{\Delta t}{h} + N_i \delta t t^0) ds = EI_c \cdot \delta t \cdot \frac{\Delta t}{h} \int M_i ds =$$

$$= 10^6 \cdot 10^{-5} \left( \frac{10}{7} \right) = -100 \cdot \int M_i ds$$

$$\delta_{1t}^* = -100 \cdot \int M_1 ds = -100 \cdot \frac{1 \cdot 4}{2} = -200$$

$$\delta_{2t}^* = -100 \int M_2 ds = -100 \cdot \frac{1 \cdot 4}{2} \cdot 2 = -400$$

$$\delta_{3t}^* = -100 \int M_3 ds = -100 \cdot \frac{1 \cdot 4}{2} \cdot 2 = -400$$

$$180^\circ = \pi \text{ rad} \quad 1^\circ = \frac{\pi}{180} \text{ rad}$$

$$\delta_{ic}^* = -EI_c \sum C_{ji} \cdot C_j = -10^6 \cdot \left[ C_{1i} \cdot \frac{0,5 \cdot \pi}{60 \cdot 180} + C_{2i} \cdot \frac{0,5}{100} \right]$$

$$\delta_{1c}^* = -10^6 \left[ 1 \cdot \frac{0,5 \cdot \pi}{60 \cdot 180} + 0 \cdot 0,005 \right] = -145,444104$$

$$\delta_{2c}^* = -10^6 \left[ 0 \cdot \frac{0,5 \cdot \pi}{60 \cdot 180} + \left( -\frac{1}{4} \right) \cdot 0,005 \right] = 1250$$

$$\delta_{3c}^* = -10^6 \left[ 0 \cdot \frac{0,5 \cdot \pi}{60 \cdot 180} + \frac{1}{2} \cdot 0,005 \right] = -2500$$

$$DX + \delta \theta = 0$$

$$\delta \theta = (\delta_0 + \delta_c + \delta_t)$$

$$X = -D^{-1} \cdot \delta \theta$$

$$X = -D^{-1} (\delta_0 + \delta_c + \delta_t) = \begin{bmatrix} 660,480475 \\ -802,794793 \\ 1275,698698 \end{bmatrix} = \begin{bmatrix} X_1 \\ X_2 \\ X_3 \end{bmatrix}$$

$$\delta_0 + \delta_c + \delta_t = \begin{bmatrix} \delta_{1c} + \delta_{1t} + \delta_{10} \\ \delta_{2c} + \delta_{2t} + \delta_{20} \\ \delta_{3c} + \delta_{3t} + \delta_{30} \end{bmatrix}$$