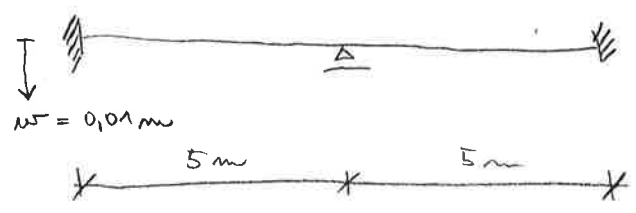
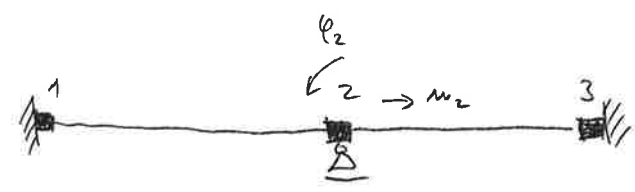


$E = 20 \text{ GPa}$
 $A = 0,045 \text{ m}^2$
 $I = 3,375 \cdot 10^{-7} \text{ m}^4$



1

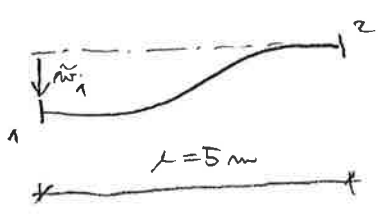


$$\{r\} = \begin{Bmatrix} w_2 \\ \varphi_2 \end{Bmatrix}$$

2

VIZ POKLAD SE SIC. ZATNIZEM

PRWT 1-2



$$\{\tilde{r}_{12}\} = \begin{Bmatrix} 0 \\ w_1 \\ 0 \\ 0 \\ 0 \\ 0 \end{Bmatrix}$$

$$\{\tilde{R}_{12}\} = [K_{12}^*] \cdot \{\tilde{r}_{12}\} = \begin{Bmatrix} 0 \\ 6480 \\ -16200 \\ 0 \\ -6480 \\ -16200 \end{Bmatrix}$$

PRWT 2-3



$$\{\tilde{r}_{23}\} = \begin{Bmatrix} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{Bmatrix}$$

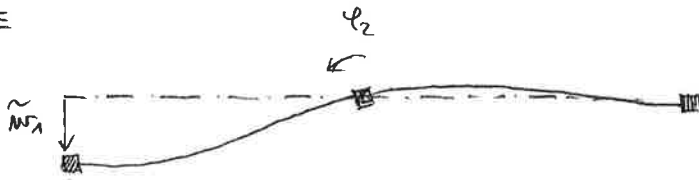
$$\{\tilde{R}_{23}\} = \begin{Bmatrix} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{Bmatrix}$$

3

$$\{\tilde{R}\} = \begin{Bmatrix} 0 \\ 0 \\ -16200 \\ 0 \end{Bmatrix} \begin{matrix} w_2 \\ \varphi_2 \end{matrix} \quad \{F\} = \{S\} - \{\tilde{R}\} - \{\tilde{R}\} = \begin{Bmatrix} 0 \\ 16200 \end{Bmatrix}$$

$$\begin{bmatrix} 3,6 \cdot 10^8 & \\ & 10,8 \cdot 10^6 \end{bmatrix} \begin{Bmatrix} w_2 \\ \varphi_2 \end{Bmatrix} = \begin{Bmatrix} 0 \\ 16200 \end{Bmatrix} ; \quad \{r\} = \begin{Bmatrix} 0 \\ 0,0015 \text{ rad} \end{Bmatrix}$$

DEFORMATION



4

$$\{r_{12}\} = \begin{Bmatrix} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0,0015 \end{Bmatrix} ; \quad \{r_{23}\} = \begin{Bmatrix} 0 \\ 0 \\ 0,0015 \\ 0 \\ 0 \\ 0 \end{Bmatrix}$$

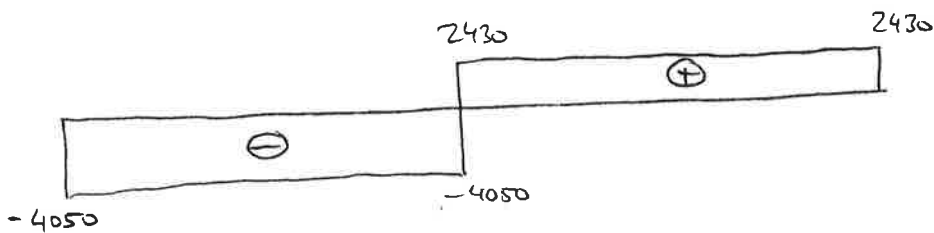
$$\{\hat{R}_{12}\} = [K_{12}]\{r_{12}\} = \begin{Bmatrix} 0 & N \\ -2430 & N \\ 4050 & Nm \\ 0 & N \\ 2430 & N \\ 8100 & Nm \end{Bmatrix} ; \quad \{\hat{R}_{23}\} = [K_{23}]\{r_{23}\} = \begin{Bmatrix} 0 & N \\ -2430 & N \\ 8100 & Nm \\ 0 & N \\ 2430 & N \\ 4050 & Nm \end{Bmatrix}$$

$$\{R_{12}\} = \{\hat{R}_{12}\} + \{\tilde{R}_{12}\} = \begin{Bmatrix} 0 \\ 4050 \\ -12250 \\ 0 \\ -4050 \\ -8100 \end{Bmatrix} ; \quad \{R_{23}\} = \{\hat{R}_{23}\}$$

2



5



7

