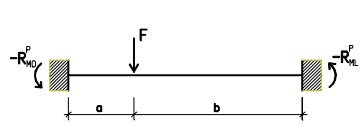
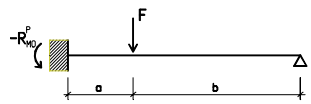


MOMENTOVÉ SLOŽKY TRANSFORMOVANÉHO ZATÍŽENÍ

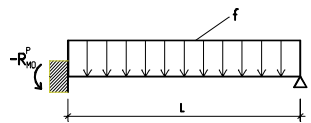


$$-R_{M0}^P = \frac{F a b^2}{L^2}$$

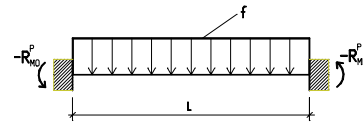
$$-R_{ML}^P = -\frac{F a^2 b}{L^2}$$



$$-R_{M0}^P = \frac{F a b}{2 L^2} (b + L)$$

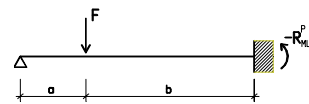


$$-R_{M0}^P = \frac{f L^2}{8}$$

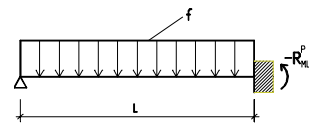


$$-R_{M0}^P = \frac{f L^2}{12}$$

$$-R_{ML}^P = -\frac{f L^2}{12}$$

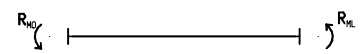


$$-R_{ML}^P = -\frac{F a b}{2 L^2} (a + L)$$



$$-R_{ML}^P = -\frac{f L^2}{8}$$

MOMENTY PRO ZJEDNODUŠENOU DEFORMAČNÍ METODU

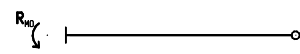


$$R_{M0} = -R_{M0}^P + k (2 \varphi_0 + \varphi_L + 3 \psi)$$

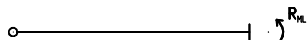
$$R_{ML} = -R_{ML}^P + k (2 \varphi_L + \varphi_0 + 3 \psi)$$

$$\psi = \frac{w_L - w_0}{L}$$

$$k = \frac{2 E I}{L}$$



$$R_{M0} = -R_{M0}^P + k^k (2 \varphi_0 + 2 \psi)$$



$$R_{ML} = -R_{ML}^P + k^k (2 \varphi_L + 2 \psi)$$

$$k^k = \frac{3}{4} \frac{2 E I}{L}$$

$$[K^{\alpha=0}] = \begin{bmatrix} \frac{EA}{L} & 0 & 0 & -\frac{EA}{L} & 0 & 0 \\ 0 & \frac{12EI_y}{L^3} & -\frac{6EI_y}{L^2} & 0 & -\frac{12EI_y}{L^3} & -\frac{6EI_y}{L^2} \\ 0 & -\frac{6EI_y}{L^2} & \frac{4EI_y}{L} & 0 & \frac{6EI_y}{L^2} & \frac{2EI_y}{L} \\ -\frac{EA}{L} & 0 & 0 & \frac{EA}{L} & 0 & 0 \\ 0 & -\frac{12EI_y}{L^3} & \frac{6EI_y}{L^2} & 0 & \frac{12EI_y}{L^3} & \frac{6EI_y}{L^2} \\ 0 & -\frac{6EI_y}{L^2} & \frac{2EI_y}{L} & 0 & \frac{6EI_y}{L^2} & \frac{4EI_y}{L} \end{bmatrix}$$

$$[K^{\alpha=-90}] = \begin{bmatrix} \frac{12EI_y}{L^3} & 0 & -\frac{6EI_y}{L^2} & -\frac{12EI_y}{L^3} & 0 & -\frac{6EI_y}{L^2} \\ 0 & \frac{EA}{L} & 0 & 0 & -\frac{EA}{L} & 0 \\ \frac{6EI_y}{L^2} & 0 & \frac{4EI_y}{L} & \frac{6EI_y}{L^2} & 0 & \frac{2EI_y}{L} \\ -\frac{12EI_y}{L^3} & 0 & \frac{6EI_y}{L^2} & \frac{12EI_y}{L^3} & 0 & \frac{6EI_y}{L^2} \\ 0 & -\frac{EA}{L} & 0 & 0 & \frac{EA}{L} & 0 \\ -\frac{6EI_y}{L^2} & 0 & \frac{2EI_y}{L} & \frac{6EI_y}{L^2} & 0 & \frac{4EI_y}{L} \end{bmatrix}$$