

in der Statikase gilt

$$\begin{bmatrix} F_I \\ F_{II} \end{bmatrix} = \begin{bmatrix} \frac{E_A}{e} & -\frac{E_A}{e} \\ -\frac{E_A}{e} & \frac{E_A}{e} \end{bmatrix} \begin{bmatrix} u_I \\ u_{II} \end{bmatrix}$$

$\underbrace{\hspace{10em}}_{[K]}$

Rücktransformation der Kräfte F_I und F_{II}
in Koordin. u. vert. Richtung

$$\begin{bmatrix} F_I \\ F_{II} \\ F_{III} \\ F_{IV} \end{bmatrix} = \begin{bmatrix} \frac{\partial x}{\partial y} & \frac{\partial x}{\partial z} & \frac{\partial x}{\partial w} \\ \frac{\partial y}{\partial y} & \frac{\partial y}{\partial z} & \frac{\partial y}{\partial w} \\ \frac{\partial z}{\partial y} & \frac{\partial z}{\partial z} & \frac{\partial z}{\partial w} \\ \frac{\partial w}{\partial y} & \frac{\partial w}{\partial z} & \frac{\partial w}{\partial w} \end{bmatrix} \cdot \begin{bmatrix} F_I \\ F_{II} \\ F_{III} \end{bmatrix}$$

$\underbrace{\hspace{10em}}_{[T^T]}$