

# Steifigkeiten

$$\frac{\partial F_1}{\partial u_1} = + \frac{EA}{e}$$

$$\frac{\partial F_2}{\partial u_1} = - \frac{EA}{e}$$

$$\frac{\partial F_1}{\partial u_2} = - \frac{EA}{e}$$

$$\frac{\partial F_2}{\partial u_2} = + \frac{EA}{e}$$

Steifigkeitsmatrix  $[K]$

$$[K] = \begin{bmatrix} \frac{\partial F_1}{\partial u_1} & \frac{\partial F_1}{\partial u_2} \\ \frac{\partial F_2}{\partial u_1} & \frac{\partial F_2}{\partial u_2} \end{bmatrix} = \begin{bmatrix} + \frac{EA}{e} & - \frac{EA}{e} \\ - \frac{EA}{e} & + \frac{EA}{e} \end{bmatrix}$$