

→ Kraft-Verformungs-Beziehung für  
den Stab i.d. Ebene

$$\begin{bmatrix} F_1 \\ F_2 \\ F_3 \\ F_4 \end{bmatrix} = \underbrace{\begin{bmatrix} \frac{\partial u}{\partial y_1} & \frac{\partial u}{\partial y_2} & \frac{\partial u}{\partial y_3} & \frac{\partial u}{\partial y_4} \\ \frac{\partial v}{\partial y_1} & \frac{\partial v}{\partial y_2} & \frac{\partial v}{\partial y_3} & \frac{\partial v}{\partial y_4} \end{bmatrix}}_{[k]} \begin{bmatrix} y_1 \\ y_2 \\ y_3 \\ y_4 \end{bmatrix}$$