

$$\rightarrow U_I = \cos(\alpha) \cdot U_1 + \sin(\alpha) \cdot U_2$$

$$U_{II} = \cos(\alpha) \cdot U_5 + \sin(\alpha) \cdot U_6$$

$$\rightarrow \text{Dehnung: } \epsilon_{(5)} = \frac{U_{II} - U_I}{\sqrt{2} \cdot \rho} = \dots = \frac{U_1 + U_6 - U_2 - U_5}{2 \cdot \rho} = \dots = \frac{\sqrt{2} F}{EA}$$

$$\rightarrow \text{Spannung: } \sigma_{(5)} = E \cdot \epsilon_{(5)} = E \cdot \frac{\sqrt{2} F}{EA} = \sqrt{2} \cdot \frac{F}{A}$$

Element (6)

