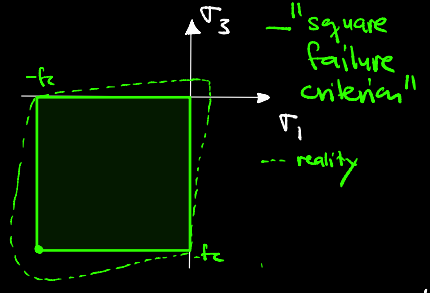


Reinforced concrete membrane elements: Yield conditions (plane stress: $\sigma_2 = 0$)

Concrete isotropic asymmetric (+) Reinforcement directional symmetric (=) Reinforced concrete

Principal stresses

$$\begin{aligned} s_x &= a s_x / h \\ s_z &= a s_z / h \end{aligned} \left. \vphantom{\begin{aligned} s_x \\ s_z \end{aligned}} \right\} \begin{array}{l} h = \text{element} \\ \text{thickness} \end{array}$$



?? not useful

Mohr circles

uniaxial tension field

