

# Μάζεμα σχέσεων για κύκλους Mohr αστοχίας

**$c \neq 0, \varphi$**

**$c = 0, \varphi$**

$$\sigma'_{1f} = \sigma'_{3f} \tan^2 \left( 45 + \frac{\varphi}{2} \right) + 2 c \tan \left( 45 + \frac{\varphi}{2} \right)$$

$$\frac{\sigma'_{1f}}{\sigma'_{3f}} = \tan^2 \left( 45 + \frac{\varphi}{2} \right)$$

$$K_p = \tan^2 \left( 45 + \frac{\varphi}{2} \right)$$

$$\sigma'_{3f} = \sigma'_{1f} \tan^2 \left( 45 - \frac{\varphi}{2} \right) - 2 c \tan \left( 45 - \frac{\varphi}{2} \right)$$

$$\frac{\sigma'_{3f}}{\sigma'_{1f}} = \tan^2 \left( 45 - \frac{\varphi}{2} \right)$$

$$K_a = \tan^2 \left( 45 - \frac{\varphi}{2} \right)$$

$$\sin \varphi = \frac{\sigma'_{1f} - \sigma'_{3f}}{\sigma'_{1f} + \sigma'_{3f} + 2 c / \tan \varphi}$$

$$\sin \varphi = \frac{\sigma'_{1f} - \sigma'_{3f}}{\sigma'_{1f} + \sigma'_{3f}}$$