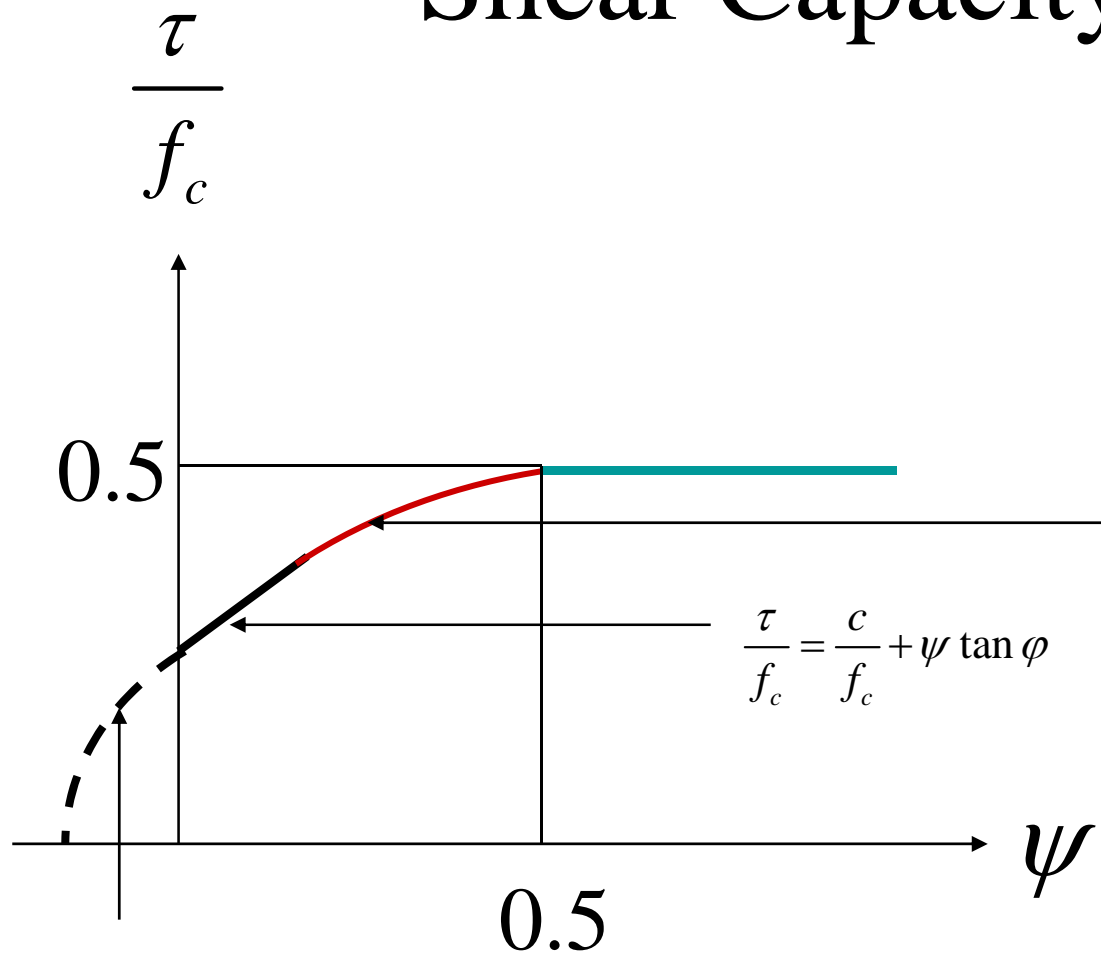


Shear Capacity

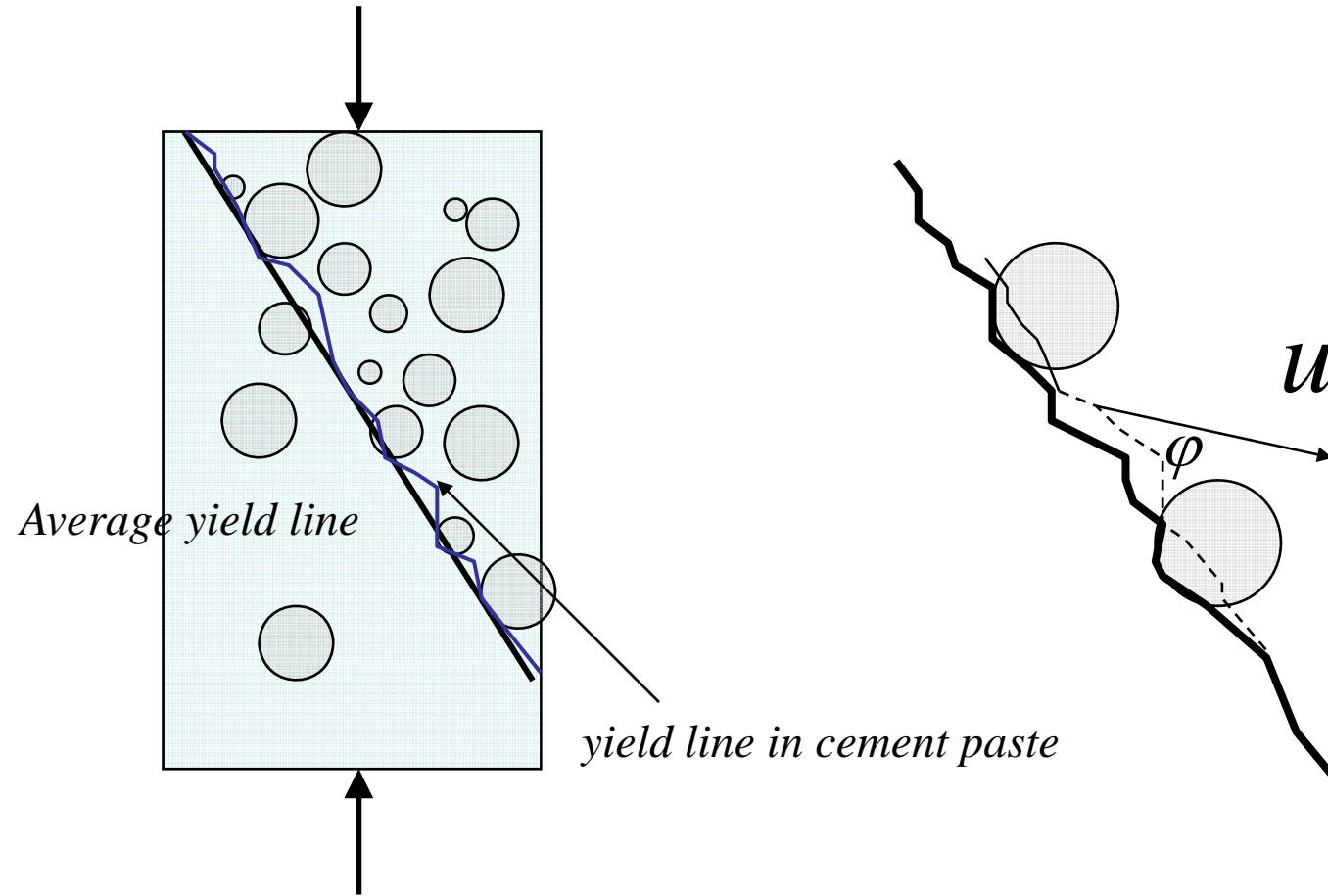


$$\frac{\tau}{f_c} = \sqrt{\psi(1-\psi)}$$

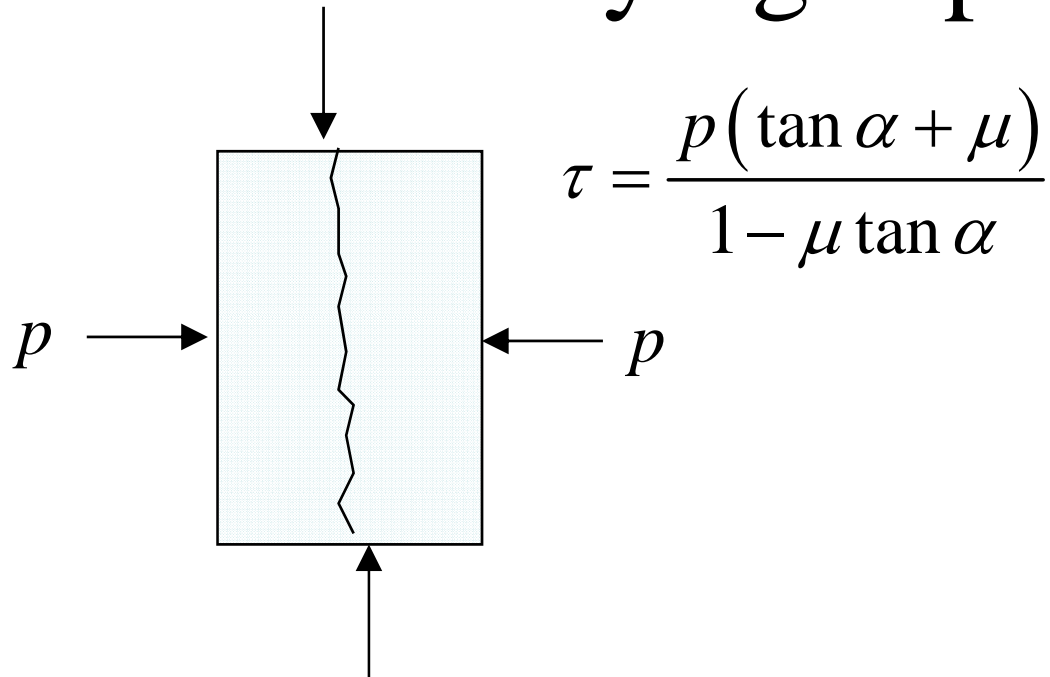
$$\frac{\tau}{f_c} = \frac{c}{f_c} + \psi \tan \phi$$

$$\frac{\tau}{f_c} = \sqrt{\left(\psi + \frac{f_t}{f_c}\right) \left[1 - 2 \frac{f_t}{f_c} \frac{\sin \phi}{1 - \sin \phi} - \left(\psi + \frac{f_t}{f_c}\right) \right]}$$

Crack as a Joint



Load carrying capacity by friction



$$\tau = \frac{p(\tan \alpha + \mu)}{1 - \mu \tan \alpha}$$

$$\sigma = p \frac{\tan \beta + \mu \tan \beta \tan(\beta - \alpha)}{\tan(\beta - \alpha) - \mu}$$

