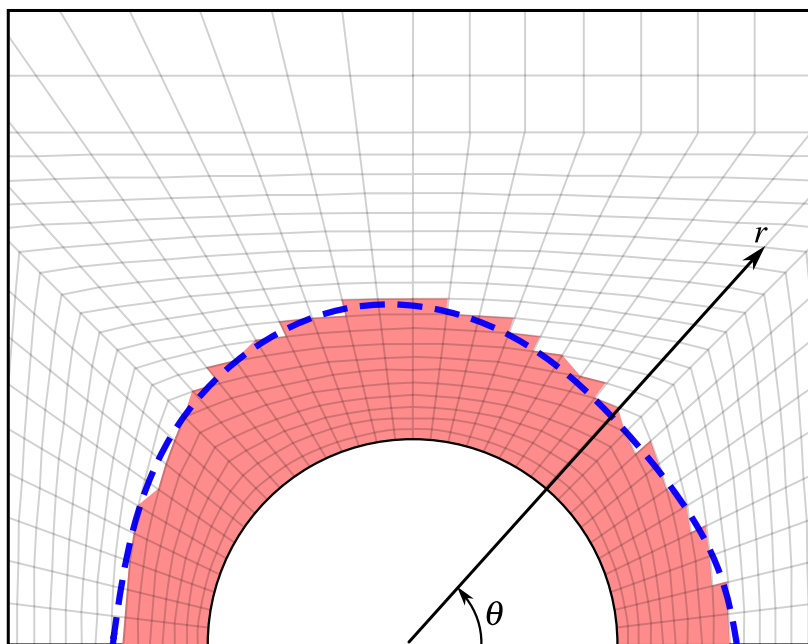$d_1/2R_t = 2.5, E = 20\,\text{GPa}, \nu = 0.3, c = 5\,\text{MPa}, \phi = 30°$

$\sigma_h = 40\,\text{MPa}, \sigma_v = 30\,\text{MPa}$

Boundary of the plastic zone - Analytical Soltuion [3]

Plastic zone - 3D F.E. Solution

σ_{rr} Analytical Solution [3]

σ_{rr} 3D F.E. Solution

$\sigma_{\theta\theta}$ Analytical Solution [3]

$\sigma_{\theta\theta}$ 3D F.E. Solution

σ_{ii} [MPa]

r [m], $\theta = 45°$

r [m], $\theta = 90°$

r [m], $\theta = 135°$