3. Calculation of Net-Section-Collapse Moment ($M_{nsc}$)

- Do = 0.4572 m
- R = 0.2177 m
- t = 0.02177 m (i.e., R/t=10)
- $\theta_0/\pi$ = 0.2
- $E$ = 182700 MPa
- $\sigma_{my}$ = 155 MPa
- $\sigma_{u}$ = 443 MPa

3. CALCULATION OF NET-SECTION-COLLAPSE MOMENT ($M_{nsc}$)

- $\sigma_f$ = 299 MPa
- $\beta$ = 1.256637 rad
- $M_{nsc}$ = 0.811036 MN-m

$M_{nsc} = 0.811$ MN-m