

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

Do = 0.4572 m  
R = 0.217715 m  
t = 0.02177 m (i.e., R/t=10)  
theta0/pi = 0.2

E = 182700 MPa  
sigmay = 155 MPa  
sigmau = 443 MPa

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

sigmaf = 299 MPa  
Beta = 1.256637 rad  
MNSC = 0.811036 MN-m

$$M_{nsc} = 0.811 \text{ MN-m}$$