

With goniometric functions imperfection is applied over the compartment (see Figure 1).

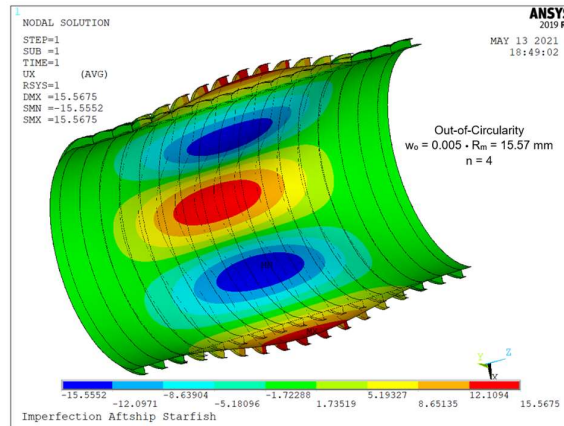


Figure 1 Out-of-Circularity compartment

Three positions over the circumference are considered (see Figure 2)

- Imperfection outward, position a
- Neutral position, position c
- Imperfection inward, position b

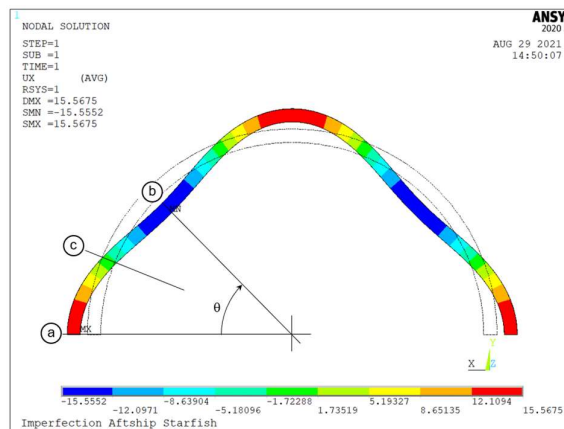


Figure 2 Positions over the circumference

For the ring-stiffened pressure hull three locations are considered (See Figure 3)

- Flange of the stiffener, location 1
- Shell at frame, location 2
- Shell midbay, location 3

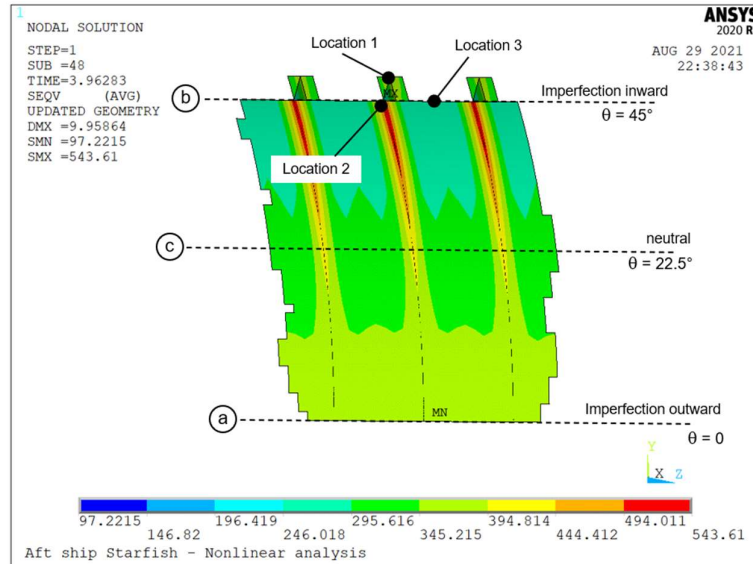


Figure 3 Locations of interest

Over the circumference and over the thickness stresses are considered for FE-elements at the three locations shown in Figure 3.

Depending on the fibre with the maximum stress (see Figure 4):

- Fibre with the maximum stress, denoted by A, at position a, c and b
- Midplate, denoted by C, at position a, c and b
- Fibre with the minimum stress, denoted by B, at position a, c and b

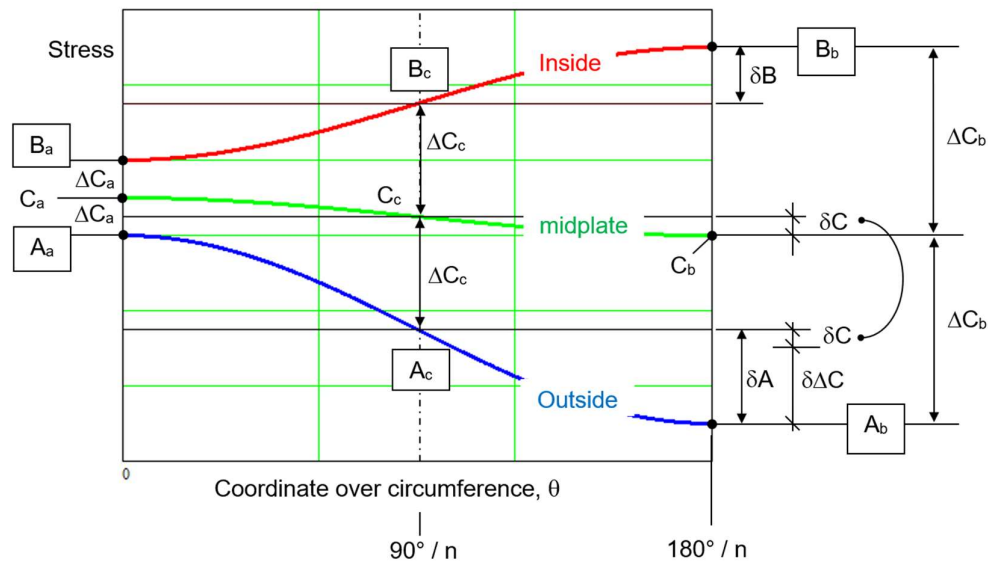


Figure 4 Stresses over the circumference and over the thickness

\*\*\*