ANSWERS - VOLUME2: STRESSES, STRAINS, DISPLACEMENTS

Chapter 4, Members Subject to Bending and Extension

problem 4.016:1-2, page 238

Remarks: See § 4.4, pages 168 till 170

Hints:

Calculate the location of the normal centre NC.

The sign of the stress at the NC is the sign of the normal force N.

Without *N*: tension above/compression below $\Rightarrow M \cap$

Answer 4.16-1: Answer 4.16-2:

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Explanation: Explanation:

NC is in the web \Rightarrow N is negative (compressive force) NC is 20 mm from the bottom of the cross-section \Rightarrow N is positive

(tensional force)

Without N: tension below/compression above $\Rightarrow M \smile$

Last update: 22-10-07