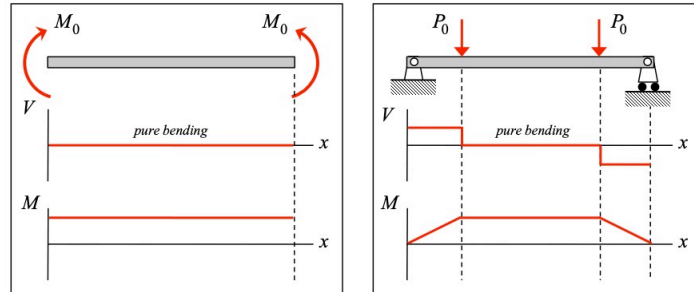


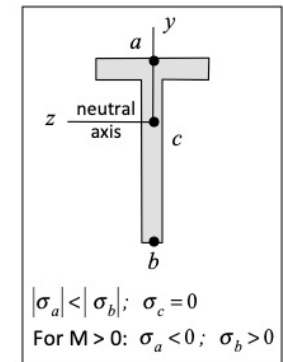
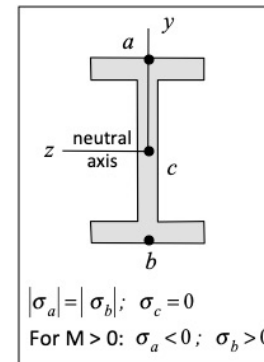
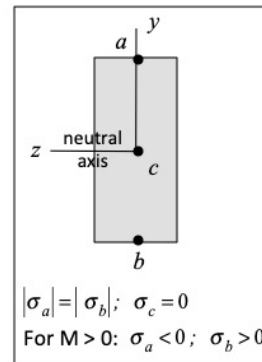
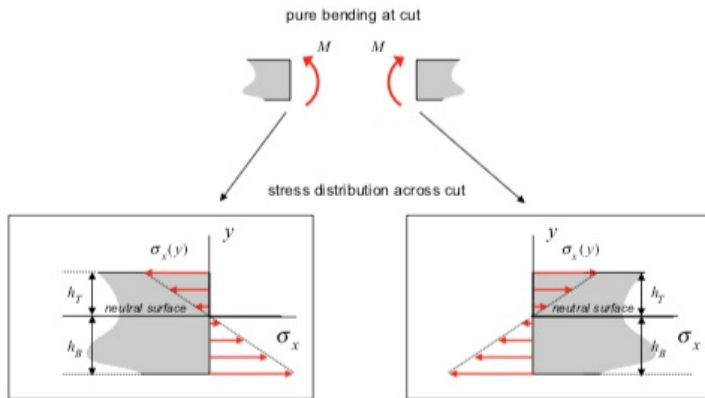
Summary: flexural stresses in pure bending in beams

- *Pure bending*: locations on a beam for which the shear force is zero. Examples:



- *Flexural stresses in pure bending*:

$$\sigma = -\frac{My}{I} \quad (\text{linearly-varying on the cross-section with } y \text{ measured from } \textit{neutral surface})$$



- Where on the cross-section is the flexural stress the greatest?