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In the previous <u>video</u>, we discussed calculating two crucial parameters for a given crosssection. These parameters are the principal axes and the angle between the principal axes and the two horizontal and vertical axes that pass through the centroid of the cross-section. Knowing these parameters is crucial for analyzing the stress state of the cross-section and its behavior under different loading conditions.

In this video, we will learn how to locate the neutral axis (N.A.) in cross-sectional analysis. The neutral axis is an important concept in structural engineering because it is the line along which the cross-section experiences no bending stress when subjected to bending moments. Furthermore, we will apply a moment to the cross-section and calculate the resulting stresses at the corner points.







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