## Prediction of the Compressive Strength of Longitudinally Stiffened Plates Undergoing Buckling Interaction

## **Young Bong Kwon**

Professor Yeungnam University Gyongsan, Korea ybkwon@ynu.ac.kr Ho Sang Park
MScE Candidate
Yeungnam University
Gyongsan, Korea
hosang@nate.com

Byung Ho Choi Senior Researcher RIST Hwaseong, Korea bhchoi@rist.re.kr

## Tae Yang Yoon

Director RIST Hwaseong, Korea tyoon@rist.re.kr

## **Summary**

A finite element research on the ultimate strength of longitudinally stiffened plates in axial compression is presented. The longitudinally stiffened plate in compression normally buckles in one of two basic buckling modes, local or distortional. However, it may also buckle in the interacted

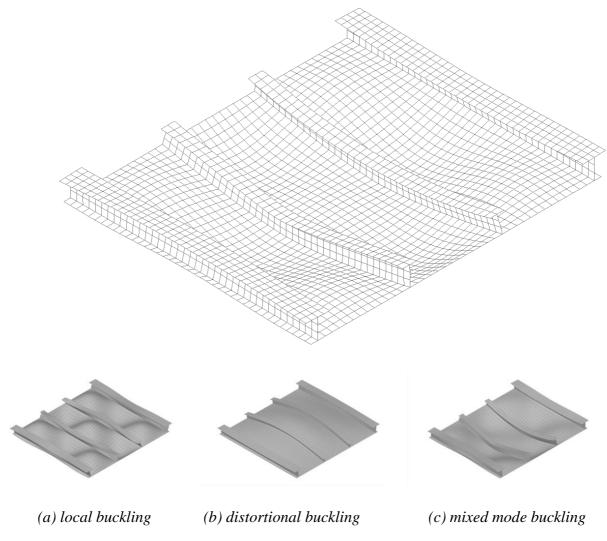


Fig. 1: Buckling modes of stiffened plates subjected to uniform compression