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Approximation of Stresses in Multi-Span CLT Beams based on refined gluing lines
R. Huber, A. K. K. K. K.

Faculty of Civil Engineering and Architecture, University of Technology, Sydney

Abstract: This paper presents a numerical study on the approximation of stresses in multi-span CLT beams based on refined gluing lines. The study is conducted using a finite element method (FEM) and compares the results with those obtained from a simplified method. The results show that the FEM method provides a more accurate approximation of the stresses in the beams, particularly in the regions of the gluing lines. The study also shows that the simplified method can be used as a first-order approximation of the stresses in the beams, but it is not suitable for detailed stress analysis.

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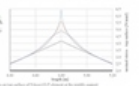


Figure 1: Approximation of stresses in multi-span CLT beams based on refined gluing lines.

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