

ENGLISH SUMMARY

DESIGN OF CENTRALLY LOADED STEEL COLUMNS ACCORDING TO 3 DIFFERENT CODES: EUROCODE 3, FINNISH CODE B7 AND SNIIP (THE SOVIET CODE)

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In the paper comparison of the design methods between 3 different codes is presented. The codes are: Eurocode 3, the Finnish code B7 and SNIIP II-23-81* (The Soviet code). In the cross-section classes 1, 2 and 3 the results are quite similar, but in the cross-section class 4 there are great differences. According to the SNIIP-code the cross-section is much better utilized in the class 4 compared to Eurocode 3 and B7. The reason is that according to SNIIP-code the classification to the cross-section class 4 depends also on the slenderness of the member itself. According to Eurocode 3 and B7 the classification of cross-section does not depend on the slenderness of the column.

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STATIC BEHAVIOUR OF A PORTAL FRAME WITH SEMI-RIGID CONNECTIONS

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This paper deals with further development of a calculation method for a portal frame by taking into account the effects of semi-rigid connections. The frame response is determined by simulating the joint behaviour using linear rotational springs. One calculation example is presented for a simple portal frame with semi-rigid connections.