



# 19. Symposium of MASE "Eurocodes – Gate to Europe"

## ANALYSIS OF SECOND-ORDER EFFECTS ACCORDING TO EUROCODE 2

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Toni ARANGJELOVSKI, Denis POPOVSKI

### ABSTRACT

The Eurocode, as the current design code in our country, allows designing objects according to contemporary standards but also opens a great number of research topics. The focus of this thesis will be the two simplified methods that Eurocode 2 offers for the calculation of the second-order effects, which are particularly important when designing construction elements with great height or with large longitudinal forces.

### INTRODUCTION

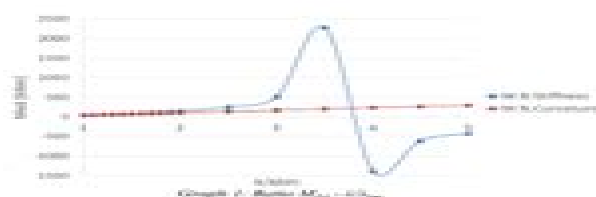
While the second-order effects can be ignored in usual constructions, in some cases they can be with great intensity, causing damages to the construction. This is the main reason why second-order effects are important to be taken into consideration with appropriate analysis. Given that Eurocode 2 leaves the opportunity to choose the method of analysis of the second-order effects up to the country's National Annex, with the analysis made in this thesis a contribution to that decision will be made, with a conclusion which method is more appropriate for calculating the second-order effects.

Eurocode 2 offers five methods for calculating the second-order effects, but in this thesis the results of the two simplified methods will be analyzed and compared:

- Method of nominal stiffness
- Method of nominal curvature

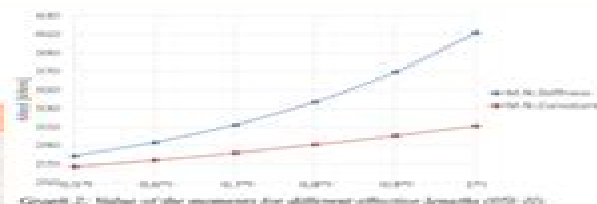
### CASE STUDIES

While the second-order effects can be ignored in usual constructions, in some cases they can be with great intensity, causing damages to the construction. This is the main reason why second-order effects are important to be taken into consideration with appropriate analysis. Given that Eurocode 2 leaves the opportunity to choose the method of analysis of the second-order effects up to the country's National Annex, with the analysis made in this thesis a contribution to that decision will be made, with a conclusion which method is more appropriate for calculating the second-order effects.



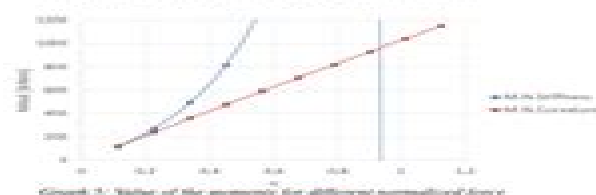
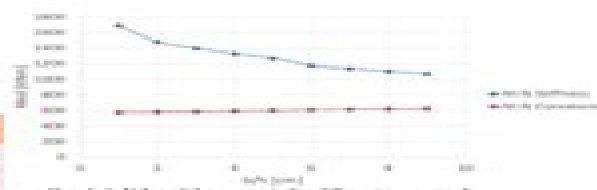
**CASE STUDY 1 – Influence of ratio**  
In all case studies can be seen that the two simplified methods have very different values for the moments  $M_{Ed}$  from some points. Up to ratio  $h/\lambda_{eff} = 1.4$  the methods give similar values, but as the ratio grows, the nominal stiffness method gives increased higher values of  $M_{Ed}$ .

**CASE STUDY 2 – Influence of effective length**  
This graph shows the change in moments  $M_{Ed}$  for different effective lengths. Here can be seen that when the ratio  $h/\lambda_{eff}$  is lower (up to 1.4) the methods give similar values for the moments. The percentage difference for the moments, up to  $h/\lambda_{eff} = 1.4$ , between the methods is from 0-10%.



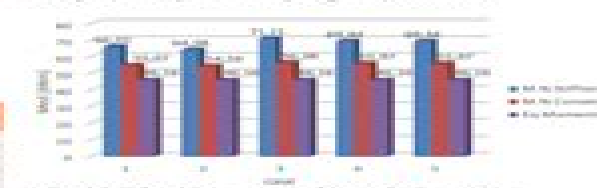
**CASE STUDY 3 – Influence of the cross-section**  
This case study shows linear decline of  $M_{Ed}$  calculated with the method of nominal curvature. However, the method of nominal stiffness gives irregular values for the highest ratio  $h/\lambda_{eff}$ . When the ratio is lower the methods have similar values.

**CASE STUDY 4 – Influence of the concrete class**  
The increase of the concrete class decreases the moments calculated with the method of nominal stiffness and increases the moments calculated with the method of nominal curvature.



**CASE STUDY 5 – Influence of the normalized force**  
Same as the previous case studies, the method of nominal stiffness gives irregular values for the moments  $M_{Ed}$ . The method of nominal curvature gives linear increase of  $M_{Ed}$ .

**CASE STUDY 6 – Influence of the stiffness of columns and beams**  
The reduction of the stiffness of the elements does not have significant influence on the moments  $M_{Ed}$ . The cases 2, 4 and 5, when the stiffness of the column is reduced, give lower values.



### CONCLUSION

From everything mentioned above can be concluded that the simplified methods can give similar values for the moments  $M_{Ed}$  to some point. However, in all case studies the method of nominal stiffness has jump, irregular values for the moments at columns with ratio  $h/\lambda_{eff}$  higher than 1.4. This is not a case when calculating with the method of nominal curvature. This method usually gives linear increase of the results, which makes him more appropriate and more reliable method for calculating. It is recommended that the method of nominal curvature be adopted for calculating the second-order moments.

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