



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

ANALYSIS OF SECOND-ORDER EFFECTS ACCORDING TO EUROCODE 2

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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

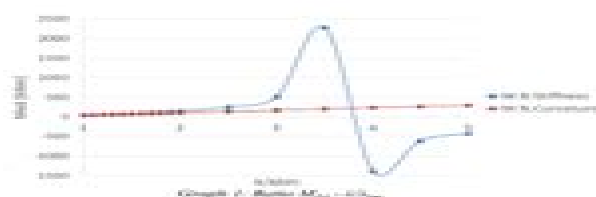
While the second-order effects can be ignored in usual constructions, in some cases they can be with great intensity, causing damages to the construction. This is the main reason why second-order effects are important to be taken into consideration with appropriate analysis. Given that Eurocode 2 leaves 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.



Graph 1: Ratio $M_{Ed} - M_{Ed0}$



Graph 2: Value of the moments for different cross-sections



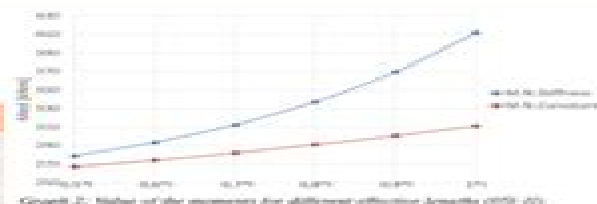
Graph 3: Value of the moments for different normalized force

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 $L/\lambda_{cr,0.5}$ 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

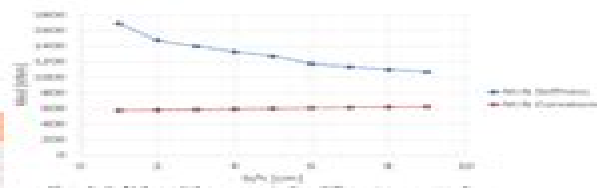
This graph shows the change in moments M_{Ed} for different effective lengths. Here can be seen that when the ratio $L/\lambda_{cr,0.5}$ is lower (up to 1.4) the methods give similar values for the moments. The percentage difference for the moments, up to $L/\lambda_{cr,0.5} = 1.4$, between the methods is from 0-10%.



Graph 4: Value of the moments for different effective lengths ($L/\lambda_{cr,0.5}$)

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 $L/\lambda_{cr,0.5}$. When the ratio is lower the methods have similar values.



Graph 5: Value of the moments for different concrete class

CASE STUDY 4 – Influence of the concrete class

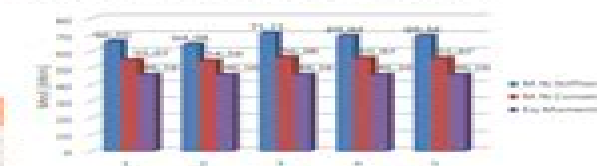
The increase of the concrete class decreases the moments calculated with the method of nominal stiffness and increases the moments calculated with the method of nominal curvature.

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.



Graph 6: Value of the moments for 5 cases of effects reduction

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 $L/\lambda_{cr,0.5}$ 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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Arnold S. Levine



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