



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

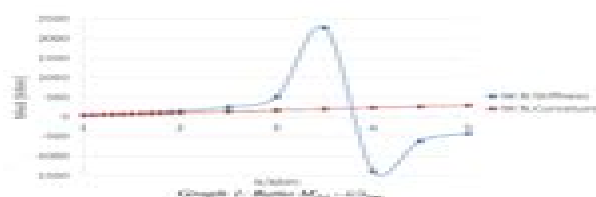
While the second-order effects can be ignored in usual constructions, in some cases they can be with great intensity, causing damages to the construction. This is the main reason why second-order effects are important to be taken into consideration with appropriate analysis. Given that Eurocode 2 leaves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

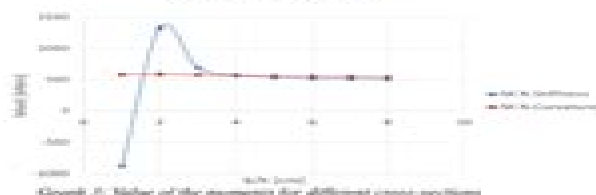
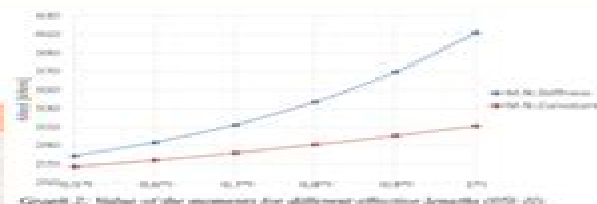
CASE STUDIES

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.



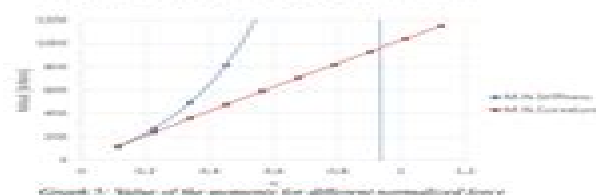
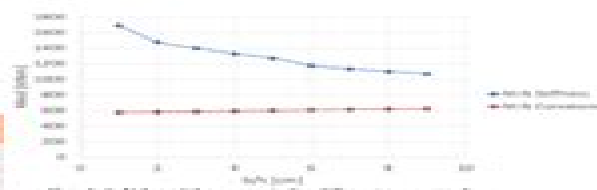
CASE STUDY 1 – Influence of l_{eff}
In all case studies can be seen that the two simplified methods have very different values for the moments M_{2D} from some points. Up to ratio $l_{eff}/h_{col} = 1.4$ the methods give similar values, but as the ratio grows, the nominal stiffness method gives increased higher values of M_{2D} .

CASE STUDY 2 – Influence of effective length
This graph shows the change in moments M_{2D} for different effective lengths. Here can be seen that when the ratio l_{eff}/h_{col} is lower (up to 1.4) the methods give similar values for the moments. The percentage difference for the moments, up to $l_{eff}/h_{col} = 1.4$, between the methods is from 0-100%.



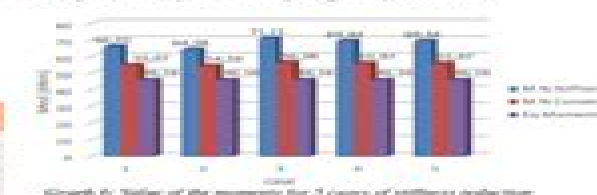
CASE STUDY 3 – Influence of the cross-section
This case study shows linear decline of M_{2D} calculated with the method of nominal curvature. However, the method of nominal stiffness gives irregular values for the highest ratio l_{eff}/h_{col} . When the ratio is lower the methods have similar values.

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 N
Same as the previous case studies, the method of nominal stiffness gives irregular values for the moments M_{2D} . The method of nominal curvature gives linear increase of M_{2D} .

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_{2D} . 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_{2D} 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_{eff}/h_{col} 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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Table of Contents Second Order Consequences Methodological Essay On The Impact Of Technology

1. Understanding the eBook Second Order Consequences Methodological Essay On The Impact Of Technology
 - The Rise of Digital Reading Second Order Consequences Methodological Essay On The Impact Of Technology
 - Advantages of eBooks Over Traditional Books
2. Identifying Second Order Consequences Methodological Essay On The Impact Of Technology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Second Order Consequences Methodological Essay On The Impact Of Technology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Second Order Consequences Methodological Essay On The Impact Of

Technology

- Personalized Recommendations
 - Second Order Consequences Methodological Essay On The Impact Of Technology User Reviews and Ratings
 - Second Order Consequences Methodological Essay On The Impact Of Technology and Bestseller Lists
5. Accessing Second Order Consequences Methodological Essay On The Impact Of Technology Free and Paid eBooks
 - Second Order Consequences Methodological Essay On The Impact Of Technology Public Domain eBooks
 - Second Order Consequences Methodological Essay On The Impact Of Technology eBook Subscription Services
 - Second Order Consequences Methodological Essay On The Impact Of Technology Budget-Friendly Options
 6. Navigating Second Order Consequences Methodological Essay On The Impact Of Technology eBook Formats
 - ePub, PDF, MOBI, and More
 - Second Order Consequences Methodological Essay On The Impact Of Technology Compatibility with Devices
 - Second Order Consequences Methodological Essay On The Impact Of Technology Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Second Order Consequences Methodological Essay On The Impact Of Technology
 - Highlighting and Note-Taking Second Order Consequences Methodological Essay On The Impact Of Technology
 - Interactive Elements Second Order Consequences Methodological Essay On The Impact Of Technology
 8. Staying Engaged with Second Order Consequences Methodological Essay On The Impact Of Technology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Second Order Consequences Methodological Essay On The Impact Of Technology
 9. Balancing eBooks and Physical Books Second Order Consequences Methodological Essay On The Impact Of Technology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Second Order Consequences Methodological Essay On The Impact Of Technology
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time

11. Cultivating a Reading Routine Second Order Consequences Methodological Essay On The Impact Of Technology
 - Setting Reading Goals Second Order Consequences Methodological Essay On The Impact Of Technology
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Second Order Consequences Methodological Essay On The Impact Of Technology
 - Fact-Checking eBook Content of Second Order Consequences Methodological Essay On The Impact Of Technology
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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