



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

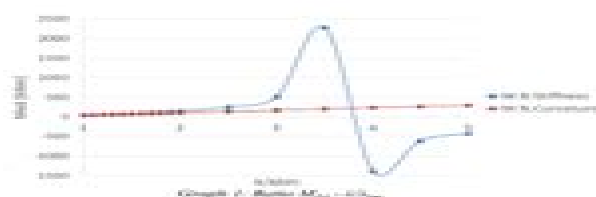
While the second-order effects can be ignored in usual constructions, in some cases they can be with great intensity, causing damages to the construction. This is the main reason why second-order effects are important to be taken into consideration with appropriate analysis. Given that Eurocode 2 leaves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

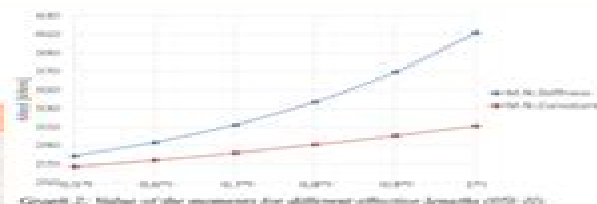
CASE STUDIES

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.



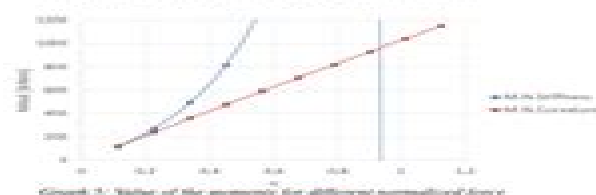
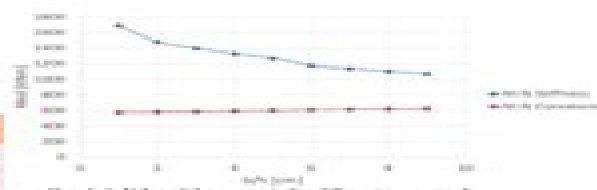
CASE STUDY 1 – Influence of l_0
In all case studies can be seen that the two simplified methods have very different values for the moments M_{2D} from some points. Up to ratio $l_0/\lambda_{cr0.1} = 1.4$ the methods give similar values, but as the ratio grows, the nominal stiffness method gives increased 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 $l_0/\lambda_{cr0.1}$ is lower (up to 1.4) the methods give similar values for the moments. The percentage difference for the moments, up to $l_0/\lambda_{cr0.1} = 1.4$, between the methods is from 0-100%.



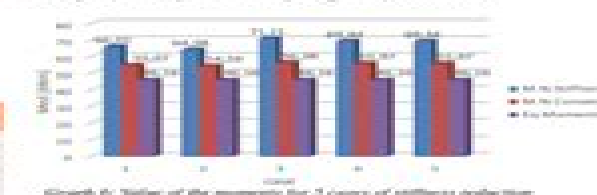
CASE STUDY 3 – Influence of the cross-section
This case study shows linear decline of M_{2D} calculated with the method of nominal curvature. However, the method of nominal stiffness gives irregular values for the highest ratio $l_0/\lambda_{cr0.1}$. When the ratio is lower the methods have similar values.

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 $l_0/\lambda_{cr0.1}$ 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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Technology Assessment for the Congress United States. Congress. Senate. Committee on Rules and Administration. Subcommittee on Computer Services,1972 Technology assessment Legislative history of proposals for an office of technology assessment The technology assessment movement The technology assessment act of 1972 P L 92 484 Operational concepts for implementing technology assessment On methodology for TA *The Future of the International Legal Order, Volume 4* Cyril E. Black,Richard A. Falk,2015-03-08 The issues of conflict management treated in this volume are relatively recent consequences of the scientific and technological revolution and are in significant respects unprecedented in man s history food distribution population ocean resources air and water pollution Such new global problems cannot be adequately solved except by international effort effort that requires adjustments in the present international system What adjustments arc practicable and at least minimally necessary are assessed by seventeen lawyers and specialists in international affairs They approach the subject from two perspectives the international legal aspects of man in his environment and the institutions agencies and movements that must be further adapted to the rapidly changing needs of mankind Contributors Harold Lasswell Mary Ellen Caldwell Dennis Livingston Howard J and Rita F Taubenfeld L F E Goldie Leon Gordenker John Carey Hans Baade Gidon Gotlieb Richard B Lillich Joseph Nye Donald McNemar James Patrick Sewell Gerald F Sumida Harold and Margaret Sprout Originally published in 1972 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905 **Sick Building Syndrome and the Problem of Uncertainty** Claudette Michelle Murphy,2006-02-22 DIVAn account of sick building syndrome and the large number of historical conditions office worker protests feminism ventilation engineering toxicology etc that coalesced to give this phenomenon real existence div Sticky Reputations Gary Fine,2012-05-22 Sticky Reputations focuses on reputational entrepreneurs and support groups shaping how we think of important figures within a crucial period in American history from the 1930s through the 1950s Why are certain figures such as Adolf Hitler Joe McCarthy and Martin Luther King cemented into history unable to be challenged without reputational cost to the proposer of the alternative perspective Why are the reputations of other political actors such as Harry Truman highly variable and changeable Why in the 1930s was it widely believed that American Jews were linked to the Communist Party of America but by the 1950s this belief had largely

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