

English summary

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A new method for structural design

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Summary. This new method is presented as three variations: a variant of the old permissible stress method, a variant of the eurocode, and a new method without a role model. These methods have four common characteristics: Load factors are set at unity i.e. $\gamma_{GQ} = \gamma_G = \gamma_Q = 1$. The deviation of the coefficient of variation of the variable load is considered. The total safety factor γ_T is set variable. No explicit safety factors exist, only implicit total safety factors which are used as the divisors of characteristic material properties to convert them permissible stresses. All methods are simple and required design work is small.

The first method, a variant of the permissible stresses, is the best one, only minor changes in the current load tables are needed and it is the most accurate. It is more accurate, simpler and includes less calculation work than current Eurocode.

Key words: structural design, total safety factor, permissible stress