

# OPTIMIZATION OF MATERIAL DISTRIBUTION IN LOAD-BEARING UNITS FOR SEVERAL CASES OF LOADING

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A definition of the most rigid construction for several cases of loading is given and an algorithm of its search is developed. A hybrid method of optimization is proposed which combines the algorithm mentioned and the concept of the full stress level. High accuracy of the hybrid method is demonstrated using numerical examples.

*Optimization, construction, stress, energy, strain, rigidity, loading, algorithm.*

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