

ALYONA LOVSKA

# **THE LOADING OF THE DETACHABLE MODULAR CONCEPTS FOR STRATEGIC CARGO UNDER OPERATING MODES**

*Monograph*



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The purpose of the monograph is to highlight the results and features of the author's research on the load capacity of detachable modular concepts designed for strategic cargoes under operating load modes.

It also includes an analysis of the prospects for container transport in Ukraine. The main load diagrams for containers in operation are presented and transport means concepts designed for strategic cargoes are proposed together with the mathematical modelling of their dynamic loads under various operational load diagrams. The corresponding load diagrams for these concepts and the results of strength calculations confirm the feasibility of the structural solutions of the proposed concepts.

The research conducted will contribute to higher efficiency of strategic cargo transportation by rail during wartime and post-war periods, in the reconstruction of Ukraine, as well as for the further development of Ukraine's economy.

The monograph is of interest to those who are concerned with designing and investigating the mechanics of load-bearing structure of wagons, in particular scientists, designers, engineers, doctoral students and postgraduate students.

The monograph can be used as a textbook for master's and bachelor's students in relevant specialities.

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