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Edited by the author  
for English version

# STRUCTURAL MECHANICS

## TEXTBOOK

Recommended by Education Board  
of Rostov State University of Transport Communication  
as a textbook for teaching the students  
in “Transport Construction” branch of trade education

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The textbook has been written in accordance with State Educational Standard of 2000 for teaching the specialist in line of transport construction. It includes a lecture course, the design tasks with patterns of execution, and the laboratory-based work series of computer simulation in ANSYS environment. The lecture course includes theoretical basics of elastic system strength analysis, the theory of buckling and structural dynamics.

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