

A numerical experiment to test the strength of the soil foundation showed that heavy types of aircraft can cause unacceptable stresses in the soil foundation of the concrete pavement. It is recommended for class I aircraft to additionally calculate the strength of the soil base of concrete and reinforced concrete pavements.

Methods have been developed for planning and processing test results of concrete and reinforced concrete pavements to determine statistical characteristics: elastic characteristics of the slab, bed coefficient and cross-sectional rigidity of the slab.

The methodology for determining the load-bearing capacity of concrete and reinforced concrete pavements based on the results of full-scale tests, considering the characteristics of aircraft supports, has been improved.

A software package has been developed for assessing the bearing capacity of concrete and reinforced concrete

pavements, taking into account the probabilistic and statistical variability of the basic arguments. It is recommended to use the programs in organisations involved in testing concrete and reinforced concrete pavements and assessing their load-bearing capacity.

The prospect for further development is to improve methods for assessing the bearing capacity of reinforced concrete monolithic and prefabricated airfield pavements, as well as asphalt concrete pavements.

2.1.8. – *Design and construction of roads, metro, airfields, bridges and transport tunnels.*

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Compiled by Natalia OLEYNIK ●