
The review of main problems associated with organization of social passenger transportations. Taking into account Transport strategy of Russian Federation until 2030 substantiates necessity to develop this activity on inland water transport. Analyses requirements for river transport, problems and prospects of its development.

Key words: river transport, passenger transportations, social routes.

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Describes normative problem of Russian legislation about definition of responsible person in case of damage caused by pollution from ship.

Key words: pollution from ship, shipowner, responsibility for damage.

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Substantiates the need of development of social passenger transportations by inland water transport taking into account provisions of Transport strategy of Russian Federation until 2030. Analyses the experience of financial support of various types of transport, suggests their adaptation for river industry.

Key words: river transport, passenger transportations, subsidies.

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Suggests the principle of organisation transport and logistic system which uses sea and inland water ways and auto roads. Describes created algorithm to build simulation model of this system by applying multimodal transport technologies.

Key words: transport and logistic system, freight line, multimodal transportations, economic and mathematical model, simulation model.

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Describes the ways of approaches for standardization in design decisions to create families in BIM environment. Shows the mathematical approach for parameterization geometrical data of building constructions of port’s historical objects.

Key words: port structures, mathematical approach, BIM environment, trigonometric tasks.

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Describes the results of researches of wear pattern of propulion and steering system’s working surfaces, technologies of appropriate hardening of propellers and guide nozzles based on results of long-lasting exploitation tests on ships pr.428 of West-Siberian river shipping company.
Suggests the method of reducing vibration isolation stiffness to zero by using dry friction forces. Describes the results of research of physical and mathematical models, develops principle of construction of power equipment’s suspension.
Key words: vibration isolation, dry friction forces, suspension, zero stiffness.
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Suggests the method of ecological monitoring of water objects and analysis of ecology by using geographic information systems.
Key words: geographic information systems, environmental monitoring, pollution of water reservoirs, environmental protection.
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Describes the process of development of simulation model for port’s berth line, determines its adequacy by method of comparison results of modelling with statistical data for worldwide ports. Shows the results of experiments with model which reveals dependencies between port’s parametric configuration and some of its operating indicators.
Key words: vessel scheduling, vessel calls, inhomogeneous berths, simulation modelling.
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