

ANNOTATIONS
of science works published in international magazine
«River transport (XXIst century)» 5(76)'2015

About advisability of using gas motor fuel on water transport / A. Galay, V. Yakunchikov, V. Fomin // River transport (XXIst century).2015. – № 5 (76) – p. 3-7.
Analyses prerequisites to using gas motor fuel on water transport.
Key words: gas motor fuel, water transport, ecological compatibility, efficiency.
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Actual problems of normative and legal regulation of multimodal transport / V. Mineev, V. Ivanov, I. Zhalyalotdinova // River transport (XXIst century).2015 – № 5 (76). – p. 22-25.

Describes the problems of interaction between different types of transport, associated with regulatory and legal provision of multimodal transport. Makes legal analysis of existing normative terminology, identifies directions of perfection of normative and legal bases with the purpose to increase inland water transport's role in joint communications (with other types of transport).

Key words: interaction between different types of transport, multimodal transport, normative and legal regulation.

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The estimation of vocational training for crews on inland navigation vessels at the courses of professional development / M. Ivanov, O. Demchenkov, D. Modenov, L. Klimchuk // River transport (XXIst century).2015. – № 5 (76) – p. 26-30.

Describes the author's approach to estimate quantitative and qualitative characteristics of professional knowledge level of seafarers on inland vessels during the training courses. Makes assessments and suggests measures to improve training quality of different groups of learners.

Key words: quality assessment, training, professional development, seafarers on inland vessels.

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The experience of using modern info-communication technologies for the purpose of increasing river electronic navigational charts' precision / V. Karetnikov, D. Milyakov, S. Rudykh// River transport (XXIst century).2015 – № 5 (76). – p. 35-37.

Describes the principles of increasing hydrographic works' effectiveness and precision by instrumental definition of ship's dynamic drawdown and trim with the help of high-precision coding technology based on navigational satellite system GLONASS. Shows the results of author's experiment, which confirm reasonability of offering method.

Key words: «new generation» branch, electronic navigational chart, ship's dynamic drawdown, navigational satellite system GLONASS, hydrographic works.

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The simulation of oil spreading process during technological operations while «ship to ship» mooring / E. Cheban, I. Kapustin, A. Molkov, M. Igonina // River transport (XXIst century).2015. – № 5 (76) – p. 42-47.

Describes the results of research (experimental and numerical) of spreading spilled oil's stain during technological operations on river fleet. Analyses the results of modeling of hydrocarbons imitators' moves on water surface behind vessels' hulls moored side by side.

Key words: loading and unloading operations, oil spill, disaster preparedness, booms.

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About reasonability of using branch method of rationing energy efficiency on river transport / Platov A., Platov Y., Molkin V. // River transport (XXIst century).2015 – № 5 (76). – p. 47-50.

Describes author's method of rationing energy efficiency of cargo river ships. Proves the incorrectness to use on river transport the relevant criteria, recommended by the MARPOL regulations, and substantiates the necessity of operation with parameter – minimum unit fuel consumption.

Key words: river transport, energy efficiency index, rationing, unit fuel consumption.

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The analysis of the method of optimal ratio of substantiation of ports' throughput and fleet's transportation capacity / P. Varchak // River transport (XXIst century).2015 – № 5 (76). – p. 50-53.

Describes the results of research of objective function of economic-mathematical model of optimization of the ratio of substantiation of ports' throughput and fleet's transportation capacity.

Key words: objective function, economic-mathematical model, optimization, ports' throughput, fleet's transportation capacity.

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The model to form future navigators' readiness for professional communication in foreign language learning process / I. Kozhevnikova // River transport (XXIst century).2015 – № 5 (76). – p. 53-55.

Describes the author's model to form future navigators' readiness for professional communication in foreign language learning process. Substantiates necessity of using isolated «teacher's terms» – steps with problems situations, which are maximum

approximate to reality in professional activity, – for the purpose of increasing level of knowledge.

Key words: model to form readiness, professional communication, foreign language.

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The analysis of factors which influence on effectiveness of functioning of cooling systems of ship's diesels operated on transition modes / I. Kosygin, O. Tyurina // River transport (XXIst century).2015. – № 5 (76) – p. 55-57.

Makes analysis of factors which influence on effectiveness of functioning of cooling systems of ship's diesels operated on transition modes.

Key words: calorific intensity, internal combustion engine, operation modes, cooling liquid.

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Comprehensive estimation of environmental damage based on receptor method / V. Novikov, I. Minaeva, D. Kozhin // River transport (XXIst century).2015. – № 5 (76) – p. 57-59.

Describes the core of receptor method for comprehensive estimation of environmental damage from spill oil during its shipping by water transport.

Key words: shipping oil, spill oil, water transport, environmental damage, receptor method.

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Probabilistic description of operation modes of ship's electric power systems and short-circuits' currents / V. Prihod'ko, I. Prihod'ko, V. Luchkin// River transport (XXIst century).2015. – № 5 (76) – p. 59-61.

Describes the results of analytical research of laws of distribution of probabilities of effective value of periodic component of currents' arc short-circuits in reference points and power cable lines of ship's electric power systems.

Key words: ship's power systems, laws of distribution of probabilities of short-circuits' currents, electrical arc, arc's voltage.

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