

ANNOTATIONS
of science works published in professional magazine
«River transport (XXIst century)» 1(109)'2024

Variants of technical solutions for maintaining depths in navigable locks of Gorodetsky hydrocomplex / M. Kolosov, K. Morgunov, S. Egorov, D. Pasyнков // River transport (XXIst century). 2024. – № 1 (109). – p. 18-22.

Describes variants of technical solutions for maintaining depths in navigable locks of Gorodetsky hydrocomplex.

Key words: Gorodetsky hydrocomplex, shipping.

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Training and production vessels as a tool for implementation of Strategy for development of inland waterway transport of Russian Federation/ O. Zyablov, O. Alekseeva, Y. Alekseev, A. Solovyev // River transport (XXIst century). 2024. – № 1 (109). – p. 23-27.

Substantiates the necessity of creating training vessels for students of sea and river educational organizations to undergo floating practice and, as a consequence, to improve the quality of specialists training.

Key words: training of specialists, swimming practice, training and production vessel.

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The features of methods to estimate technical condition of thin sheet pile wall of mooring structure /S. Egorov, P. Garibin // River transport (XXIst century). 2024. – № 1 (109). – p. 28-34.

Describes the features of methods to estimate technical condition of thin sheet pile wall of mooring structure.

Key words: mooring structure, sheet pile wall, technical condition, methods of estimation.

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The substantiation of transport and logistics scheme for export grain from middle Volga regions with taking into account variants of grain terminal placement / A. Nichiporuk, D. Dreyband, D. Korshunov, A. Lisin // River transport (XXIst century). 2024. – № 1 (109). – p. 36-39.

Researches possibility of forming transport and logistics schemes of grain export delivery from Nizhegorodskiy region by international transport corridor «North–South» with participation of inland water transport. Shows the results of modelling to define optimal placement for river grain terminal.

Key words: grain cargoes, export, river transport, terminal, logistics.

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Technical devices for increasing effectiveness of parallel operation of ship power plant's synchronous generators / V. Sugakov, Y. Malyshev // River transport (XXIst century). 2024. – № 1 (109). – p. 39-45.

Analyses devices for monitoring steady-state frequency deviations, which allow maintaining optimal level of permissible load during parallel operation of ship power plant's electrical units.

Key words: parallel operation of synchronous generators, permissible active load, devices for monitoring steady-state frequency deviation.

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The analysis of load characteristics of diesel during operation on different dispersion microheterogeneous water-fuel emulsion / S. Andryushchenko, A. Dvitriev, S. Titov, G. Yur // River transport (XXIst century). 2024. – № 1 (109). – p. 45-48.

Shows the results of experiment with diesel compartment CH 10,5/12 by load characteristic on anhydrous diesel fuel and different dispersion microheterogeneous water-fuel emulsion; numerical study of heat dissipation characteristics.

Key words: diesel, emissions of harmful substances, rude and microheterogeneous water-fuel emulsion, heat release characteristics.

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Experimental studies of dredging slots' stability on deformable model / T. Pilipenko, A. Kalashnikov, I. Botvinkov // River transport (XXIst century). 2024. – № 1 (109). – p. 48-51.

Shows the results of experiment to research stability of dredging slots on deformable hydraulic model.

Key words: dredging slot, stability, hydraulic modelling.

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The analysis of geographical and hydrological characteristics of Selenga's river basin in 1935-2023 / T. Pilipenko, D. Revazov // River transport (XXIst century). 2024. – № 1 (109). – p. 51-52.

Describes the question about estimation methods of hydrological condition of basin of Selenga river as a biggest inflow of Baykal lake.

Key words: hydrology, geomorphology, sediments, runoff and water consumption.

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The concept of automated control system for cargo quantity based on «draft survey» method / A. Muravitskiy, Y. Andryushechkin // River transport (XXIst century). 2024. – № 1 (109). – p.

53-54.

Suggests the concept of automated control system for cargo quantity on bulk and unmanned vessels based on «draft survey» method.

Keywords: unmanned vessels, automation, draft survey, «smart port».

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The analysis of perspective application of unipolar electrical machines on water transport / A. Saushev, E. Bova, A. Rummyantsev // River transport (XXIst century). 2024. – № 1 (109). – p. 55-57.

Researches possibilities of using unipolar electrical machines on water transport to increase effectiveness of ship's systems.

Keywords: unipolar electrical machine, water transport, effectiveness.

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