

ANNOTATIONS
of science works published in international magazine
«River transport (XXIst century)» 1(77)'2016

Processing approach to planning fuel consumption in shipping company / Yatchuk K., Putilova N., Maslennikov S. Vedernikov S.// River transport (XXIst century).2016. – № 1 (77) – p. 21-23.

Describes scientific-methodical approach to planning operation costs for fuel in shipping company by using instruments of modeling business processes. Offers the model of planning operational costs for fuel in transportations.

Key words: optimization, planning, finances, shipping company, resource saving.

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The innovative rowing electrical unit of passenger paddle ship / Galkin D., Kornev A., Burda E. // River transport (XXIst century).2016. – № 1 (77) – p. 24-26.

Describes the features of advanced rowing electrical unit installed on serial modern paddle vessels with shallow draft.

Key words: paddle vessel, rowing electrical unit, maneuverability, fuel efficiency.

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The research of possibility of short-time increasing diesel's power for the purpose to prevent ship's failure / Krutiev S., Zyabrov V.// River transport (XXIst century).2016. – № 1 (77) – p. 36-38.

Describes different methods of short-time increasing diesel's power. Considers possibility of using these methods on ship's power plants, estimates practicability of such approach in terms of effectiveness, safety, integrity of machine's lifetime.

Key words: diesel, oxygen, power increasing.

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Scientific-methodological basis of increasing environment's safety from oil shipping by water transport / Novikov V., Minaeva I., Kozhin D.// River transport (XXIst century).2016. – № 1 (77) – p. 38-41.

Describes authors' scientific-methodological approach to create the method of estimation and increasing environment's safety from oil shipping by water transport.

Key words: oil, transportation, water transport, pollution, environment, scientific-methodological basis, safety.

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The principles of creating standard series of vessel's propulsion and steering device with optimal characteristics / Kagan Z. // River transport (XXIst century).2016. – № 1 (77) – p. 41-46.

Describes author's method of creating standard series of vessel's propulsion and steering device including swivel column.

Key words: standard series, vessel's propulsion and steering device, swivel column, optimal characteristics and parameters.

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The ways to compensate dynamic drawdown of ship which producing track works while moving at shallow / Karetnikov V., Yatsuk Y., Volkov R. // River transport (XXIst century).2016. – № 1 (77) – p. 46-48.

Describes the occurrence of dynamic drawdown of ship moving on shallow; analyses methods of calculation of this occurrence. Gives constructive offers to take it into account while producing hydrographic works.

Key words: ship's dynamic drawdown, track works, limited depth, inland waterways.

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Probabilistic description of activation parameters of ship's electropower systems' protection / Prikhodko V., Prikhodko I., Luchkin V. // River transport (XXIst century).2016. – № 1 (77) – p. 49-52.

Shows the results of created method to optimize setpoints to measure elements of ship's electropower systems' protection relay devices. Substantiates selection of the most effective ways to protect ship's equipment.

Key words: protection relay, function of specific damage, probability of failsafe operation.

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The identification of events for oil spills from ships / Plastinin A. // River transport (XXIst century).2016. – № 1 (77) – p. 52-56.

Describes the results of research of stochastic processes of oil spills' occurrence while vessels operate on inland waterways (on the example of Volga basin).

Key words: risk assessment, identification of events, oil spill, environment.

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About advisability of using modern informational technologies by classification society / Gibulin E., Solovyev A.// River transport (XXIst century).2016. – № 1 (77) – p. 57-58.

Substantiates advisability of using PLM-system by classification society.

Key words: vessel's lifecycle, PLM-system, classification society, three-dimensional model of vessel.

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