

**ANNOTATIONS**  
**of science works published in international magazine**  
**«River transport (XXI st century)» 2(98)'2021**

**About monitoring of control-supervising activity under water transport objects / S. Egorov, P. Garibin, A. Fedyashov // River transport (XXI<sup>st</sup> century). 2021. – №2 (98). – p. 36-37.**

Makes analysis of remote monitoring system to implement accordance with obligatory requirements on water transport.

**Key words:** remote monitoring, control-supervising activity, water transport.

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**The concept of icebreaking catamaran-type vessel / S. Tsvetkov, S. Kozik, Y. Andryushechkin // River transport (XXI<sup>st</sup> century). 2021. – №2 (98). – p. 38-39.**

Suggests the concept of catamaran-type icebreaking vessel. Describes arguments in favor of icebreaker's hull shown design using «ice bending» mechanism, which allows to change ice destruction's energy to increase efficiency of passing ice field, especially in conditions of heavy, more durable ice with thickness about 2 m.

**Key words:** icebreaker, catamaran type vessel, ice breaking mechanisms.

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**The method of probabilistic estimation of ship's hull and its elements residual life / M. Ulasov, E. Burmistrov // River transport (XXI<sup>st</sup> century). 2021. – №2 (98). – p. 44-48.**

Offers the method of enlarged estimation of technical condition of ship's hull based on probabilistic assessment of its elements' reliability.

**Key words:** repair, fault detection, residual service life, reliability, forecasting, probabilistic assessment.

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**The method for practical determination of ordinate of vessel's valid waterline to estimate changing applicate of transverse metacenter on nearly following swell / M. Osokin // River transport (XXI<sup>st</sup> century). 2021. – №2 (98). – p. 48-53.**

Suggests the method for mathematical estimation of changing area and moment of inertia of actual waterline when vessel moves on wave from aft course angles with length close to ship's length, leading to periodic decreasing of GM, changing static stability diagram and possibility of parametric rolling.

**Key words:** moment of inertia of actual waterline, safety of sailing, parametric rolling, ship's stability.

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**Experimental researches of ship's paint coatings / O. Lebedev, M. Menzilova // River transport (XXI<sup>st</sup> century). 2021. – №2 (98). – p. 53-56.**

Shows the results of experimental researches of different paint coatings of ship's housings, in which analysed influence of low temperatures, impending water stream, conditions of shallow water and surfaces biofouling.

**Key words:** paint coating, protection for ship, housing structures.

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**The analysis of high-voltage electrical equipment with the help of two expert approaches / V. Manusov, A. Kalanakova, B. Palagushkin, G. Ivanov, A. Belonogov // River transport (XXI<sup>st</sup> century). 2021. – №2 (98). – p. 56-59.**

Makes comparative analysis of expert assessments based on two approaches – arithmetic means and median values. Describes the methods to predict state of electrical equipment.

**Key words:** expert assesment, technical condition, electrical equipment.

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**Automatization of optimisation task creating model process on river transport / M. Razdobreev, T. Molina, K. Razdobreev // River transport (XXI<sup>st</sup> century). 2021. – №2 (98). – p. 59-62.**

Describes the features of creating operation models methods in concept of computer realising process of setting optimisation task on river transport.

**Key words:** river transport, model, optimisation task, decision, automatization.  
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