

ANNOTATIONS
of science works published in international magazine
«River transport (XXI st century)» 4(100)'2021

Technogenic transformation of Ob riverbed in downstream of Novosibirskiy hydrosystem and its influence on waterway's condition // River transport (XXIst century). 2021. – № 4(100). – p.30-35.

Analyses negative effects of technogenic loads on riverbed processes which caused loss of results of riverbed root correction in 1960-80 years and degraded navigation conditions on Ob river.

Key words: technogenic influence, riverbed processes, river, shipping.

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Problems of defectoscopy in national ship repair and ways to solve them / E. Burmistrov, D. Kromov, A. Ulasov, O. Schegoleva // River transport (XXIst century). 2021. – № 4(100). – p. 36-40.

Describes the problems of defectoscopy in national ship repair from the point of view of provision post-repair reliability of ships as complicated floating technical systems; suggests the ways to solve them.

Key words: ship repair, fault, defecation, residual resource, reliability.

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Using explosion to repair deformations of ship's hull / L. Arabyan, E. Grigoryev, M. Menzilova // River transport (XXIst century). 2021. – № 4(100). – p. 44-45.

Describes the results of researches about the possibility to use explosion's energy to remove deformations of sheet elements while building and repair ship's hull metal constructions. The reliability of presented data is confirmed by long-lasting exploitation tests on fleet of West-Siberian river shipping company.

Key words: energy of explosion, ship's hull residual deformations, explosives.

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The estimation of pollution level in megapolis (on the example of city Novosibirsk) by automotive and river transport in dependence of different factors / D. Panov, O. Roslyakova, A. Kudryashov, E. Egorova, A. Panova, T. Shil'nikova // River transport (XXIst century). 2021. – № 4(100). – p. 46-49.

Describes the results of field measurements of harmful substances concentration in atmosphere in port of Novosibirsk region and surrounding residential development; of field experiences and terrain 3D-modelling. Analyses examples of territory features influence on pollutant distribution from automotive and river transport.

Key words: traffic flow, polluting substances, terrain, pollutants, 3D-modelling.

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The modular principle of transport systems projecting / S. Maslennikov, M. Sinitsyn // River transport (XXIst century). 2021. – № 4(100). – p. 49-52.

Describes the ways of development of mobile technologies of cargo delivery by inland water transport. Makes analysis and suggests composition of modules of mobile transport-reloading complex.

Key words: inland water transport, Ob-Irtysh basin, river transportations, mobile technologies.

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Laboratory studies of flow's kinematic during creating dredging cut / T. Pilipenko, A. Kalashnikova // River transport (XXIst century). 2021. – № 4(100). – p. 52-55.

Analyses stability of dredging cut. For increasing its stability suggests hydraulic scale model which allows to check choosed configuration of cut.

Key words: Ob river, dredging, stability of dredging cut, hydraulic scale modeling.

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Using additive technologies in research of ship's anchor and ground interaction / Y. Kochnev, I. Kochneva, S. Kosterina // River transport (XXIst century). 2021. – № 4(100). – p. 55-57.

Estimates possibility of using additive technologies for testing ship devices. Makes detailed analysis of definition of holding force of anchors made from ABS-plastic in laboratory conditions.

Key words: anchor, tests, holding force, additive technologies.

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Comparative estimation of ships diesels' level of technical development / V. Zhukov, A. Gombalevskiy // River transport (XXIst century). 2021. – № 4(100). – p. 57-62.

Analyses and estimates level of technical development, exploitation and ecological features of russian and foreign ship diesels.

Key words: ship power plant, diesel, level of technical development.

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