

**ANNOTATIONS**  
**of science works published in international magazine**  
**«River transport (XXI<sup>st</sup> century)» 4(88)'2018**

**The structure of electromotive complex of high powered ship/ F. Gelver // River transport (XXI<sup>st</sup> century).2018. – № 4 (88) – p. 44-49.**

Describes the author's structure of electromotive complex of high powered ship which provides realization of energy channel of almost any draft electric drive, but with limitations from parameters of used energy switches in electric converter.

**Key words:** ship's electromotive complex, block diagram, cascade electric frequency converter, cell, single-phase frequency converter, synthesized voltage levels.

**Contacts:** gelver@bk.ru

**The software for calculation carrying capacity of port terminal/ // River transport (XXI<sup>st</sup> century).2018. – № 4 (88) – p. 50-52.**

Describes the methodical basis and features of the software for calculation carrying capacity of port terminal (and its elements). Shows the results of calculations on the example of Krasnoyarsk river port.

**Key words:** transport corridor, port terminal, carrying capacity, software, calculation.

**Contacts:** garans@list.ru

**About principles of estimation ecological safety of undersized river ships / V. Zhukov, V. Medvedev, S. Sherban // River transport (XXI<sup>st</sup> century).2018. – № 4 (88) – p. 52-55.**

Describes the problem of improving system of control emissions with exhaust gases of small displacement and undersized ship's diesels. Substantiates the necessity of renewal active normative base, methods and resources for making revisions on operating vessels.

**Key words:** small displacement river ships, undersized vessels, ecological requirements, methods and resources for control emissions with exhaust gases.

**Contacts:** kaf\_sdvs@gumrf.ru

**About using frothy type scrubber as the instrument for decreasing ships diesel's emissions / S. Titov, O. Solyakov, P. Mischenko, O. Roslyakova // River transport (XXI<sup>st</sup> century).2018. – № 4 (88) – p. 55-57.**

Analyses existing methods for decreasing concentration of sulfur oxide in emissions of ships diesel's combustion product. Estimates possibility of using frothy type scrubber.

**Key words:** exhaust gases, ship's diesel, frothy type scrubber.

**Contacts:** scom@ngs.ru, Solyakov1@yandex.ru, info202@yandex.ru, oksanchik79@yandex.ru

**The problems and perspectives of development of siberian ports / V. Buneev, E. Zhendareva, I. Lipatov // River transport (XXI<sup>st</sup> century).2018. – № 4 (88) – p. 57-59.**

Analyses actual questions, methods and directions of improvement of siberian river ports' activity.

**Key words:** Siberia, river ports, river transport, multimodal hub, international transport corridors, the Northern sea route.

**Contacts:** kurf@nsawt.ru, gendareva@yandex.ru, VPIHGS@vgavt-nn.ru

**The features of substantiation optimal variants of cargo transportations on side rivers in Lenskiy basin / M. Sinitsyn, G. Sinitsyn, I. Lipatov // River transport (XXI<sup>st</sup> century).2018. – № 4 (88) – p. 59-61.**

Analyses features of cargo delivery (structure and quantity) on rivers of Lenskiy basin. Describes the author's algorithm of substantiation optimal variant of transportation resources on small (side) rivers in Siberia and far East.

**Key words:** small and side rivers, hydrology, variants of cargo transportations, northern delivery, river transport, system approach.

**Contacts:** Mihail\_sinitsyn@mail.ru, sinitsyn\_gennadiy@mail.ru, VPIHGS@vgavt-nn.ru