

ANNOTATIONS
of science works published in international magazine
«River transport (XXIst century)» 1(81)'2017

Marketing audit of the labor market of water transport educational institutions' graduates / I. Kuzmichev, V. Ivanov // River transport (XXIst century).2017. – № 1 (81) – p. 24-27.

Describes the results of marketing audit of the labor market of water transport educational institutions' graduates based on industry enterprises poll. Shows perspective assessment of economic entities' demand in experts with secondary and higher education.

Key words: water transport, marketing, audit, labor market, educational institutions.

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New national technologies and equipment for waterways dredging / N. Arefyev, A. Kornev, Y. Matveev, N. Popov // River transport (XXIst century). 2017. – № 1 (81). – c. 31-34.

Presents short descriptions about developed in VSUWT innovative technological equipment and technologies for waterways dredging. Technical solutions are scientifically justified, tested, protected by Russian Federation patents for inventions and utility models; their application in practice provides increasing productivity and reduces specific energy costs.

Keywords: dredging, dredge device, soil pumps, axial pumps, soil pipelines, calculation of soil pump installations, repair of soil pump installations.

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The parametrization of channel process' forms and conditions as the basis of dredging planning (on the example of Ob river) / R. Chalov, S. Ruleva, N. Mikhaylova, K. Berkovich // River transport (XXIst century).2017. – № 1 (81) – p. 35-43.

Describes the results of the research of parametrization principles of forms and conditions of navigable river's channel processes in order to estimate shipping conditions and planning dredging.

Key words: channel processes, dredging, navigation conditions, maintaining of rivers, guaranteed dimensions of water way, planning.

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About reasonability of creation River informational services in administrations of Russia's inland water ways basins / E. Brodskiy, I. Tkachman, K. Belova, M. Ismagilov // River transport (XXIst century).2017. – № 1 (81) – p. 44-47.

Substantiates necessity of using in Russia advanced technologies of information transfer for the purpose of increasing safety of shipping and effectiveness of water transport, including creation of united web portal of River informational services according to international standards.

Key words: River informational service, administration of river basin, web portal, e-Navigation, safety of shipping, effectiveness of water transport.

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About influence of vessel's crew members psychophysical condition on shipping process / L. Mokerov, O. Parygina // River transport (XXIst century).2017. – № 1 (81) – p. 52.

Makes analysis of influence of vessel's crew members psychophysical condition on shipping process.

Key words: psychophysical condition, safety of navigation.

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Extension representation of quality coefficients (classical and relative hydrodynamic) in the ideal propulsion theory/ Z. Kagan. D. Kagan / River transport (XXIst century). 2017. – № 1(81).– p. 53-56.

Describes the research results for the purpose of extension representation of quality coefficient accepted in the ideal propulsion theory and introducing its new expression. Proves possibility of application the coefficient of relative hydrodynamic quality of propulsion system on any operating modes.

Key words: propulsion system, coefficients of classical relative hydrodynamic quality, estimation of effectiveness.

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The new sextant for measuring difference of stars' levels and azimuths / V. Sichkarev, S. Titov, S. Babich // River transport (XXIst century).2017. – № 1 (81) – p. 57-58.

Describes the results of creating and testing experimental model of sextant with turning large mirror, which additional freedom degree expands features for measuring difference of levels and azimuths.

Key words: sextant, turning large mirror, difference of levels and azimuths.

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Plasmic spraying of coating on river ship's propeller screw' vanes for protection from cavitation and hydroabrasive wear / V. Kuzmin, A. Tokarev, S. Titov, E. Fedotova, S. Pavlushkin// River transport (XXIst century).2017. – № 1 (81) – p. 58-60.

Describes the results of science-researching work about applying protective coatings on propeller screw' vanes for the purpose of decreasing wear and destruction while its exploitation.

Key words: propeller screw, plasmic spraying, protective coating, plasma torch.

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The approach to substantiation variants of ports' spatial expansion / A. Galin / River transport (XXIst century).2017. – № 1 (81) – p. 61-63.

Describes the author's method of making decision to define rational place for port's expansion, based on model «Anyport» and taking into account main restrictions of different factors. Shows the example of its application.

Key words: port's expansion, competitiveness, model of advancement, decision making algorithm.

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