

ANNOTATIONS of science works  
published in international magazine  
«River transport (XXI<sup>st</sup> century)» 3(83)'2017

**Perennial and season condition of shoals in local enlargements of weakly stable channels of rivers and its accounting while planning ways works / N. Mikhailova, R. Chalov, S. Ruleva, A. Kamyshev // River transport (XXI<sup>st</sup> century).2017. – № 3 (83) – p. 29-34.**

Researches perennial and season condition of shoals in local enlargements of weakly stable channels of navigable rivers. Estimates influence of changes on ways works planning.

**Key words:** shoals, weakly stable channels of rivers, ways works, planning.

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**About ship's impact on the lock's gates / M. Kolosov, S. Smirnov // River transport (XXI<sup>st</sup> century).2017. – № 3 (83) – p. 38-40.**

Describes the probability of ship's impact on lower gates of the lock and predicts possibility of breakout of water pressure front by using data about vessel's speeds inside lock.

**Key words:** shipping lock, vessel's speed, possibility of breakout of water pressure front.

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**The method of estimation of industrial functions models' parameters by using neural nets / D. Dmitrienko // River transport (XXI<sup>st</sup> century).2017. – № 3 (83) – p. 40-44.**

Describes the method of parametrical estimation of industrial functions' models by using statistical rows.

**Key words:** estimation of parameters, industrial model, function of expenditure, model Cobb-Douglas, neural net.

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**About using electric energy systems on river ships / V. Romanovskiy, V. Kurakin, A. Radaev // River transport (XXI<sup>st</sup> century).2017. – № 3 (83) – p. 44-46.**

Considers possibility of using ecological clear electric energy sources to provide ship's moving. Suggests technical solutions of highly economical power units for passenger vessels.

**Key words:** passenger ships, electric power units, ecologic, economic.

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**The estimation of navigator's functional states by using method of gas-discharge imaging / V. Karetnikov, S. Kozik, I. Sokolova // River transport (XXI<sup>st</sup> century).2017. – № 3 (83) – p. 46-49.**

Describes the method of gas-discharge imaging – high-frequency photographing based on so-called «Kirlian effect», – and its field of application, in part for researching of navigator's functional states.

**Key words:** method of gas-discharge imaging, biological object, electromagnetic field, functional states, energy flow.

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**About methods of definition ship's fuel consumption / O. Pestryakova, I. Kosygin // River transport (XXI<sup>st</sup> century).2017. – № 3 (83) – p. 49-50.**

Analyses modern approaches to control ship's fuel consumption.

**Key words:** fuel consumption, system of control, flowmeter.

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**The method of definition of natural gas leakage on ship by radon's concentration / E. Shustik, V. Yakunchikov // River transport (XXI<sup>st</sup> century).2017. – № 3 (83) – p. 50-52.**

Describes the method of definition of natural gas leakage on ship by radon's concentration in indoors air. Suggests author's approach.

**Key words:** ship, natural gas leakage, sensor, radon.

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**The ways of realization of Strategy of development of inland water transport in Siberian region / V.Buneev, V. Vinnichenko, S. Maslennikov // River transport (XXI<sup>st</sup> century).2017. – № 3 (83) – p. 52-54.**

Describes main principles of realization of regional social-economical programs in Siberia. Analyses the specification of «north transportation». Considers integrated project «Yamal LNG».

**Key words:** strategy, transport service, «north transportation», Siberian region.

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**The examination of pier for unloading timber cargoes in Ust-Ilimsk / M. Lobanovskiy // River transport (XXI<sup>st</sup> century).2017. – № 3 (83) – p. 54-56.**

Shows the results of visual examination, full-scale tests and verification of strength of embankment for unloading timber cargoes in Ust-Ilimsk. Proposes constructive offers for repair and reestablish the pier to provide its normal exploitation.

**Key words:** pier, load bearing capacity, visual examination, full-scale tests, verification.

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**The estimation of impulse noise induced in secondary circuit during different modes of operation of primary network / B. Palagushkin, Y. Demin, E. Alaev, A. Palagushkin, A. Kuznetsov, D. Plotnikov, L. Sadovskaya // River transport (XXI<sup>st</sup> century).2017. – № 3 (83) – p. 56-58.**

Makes analysis and estimation of impulse noise induced in secondary circuit during different modes of operation of primary network.

**Key words:** primary and secondary circuit, impulse noise induced, traction substation.

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**A new approach to quantitative assessment of efficiency of organizational and technological decisions in shipbuilding / I. Luchkov, E. Burmistrov // River transport (XXI<sup>st</sup> century).2017. – № 3 (83) – p. 58-61.**

Describes the author's method, based on active management of production risks, to quantitative assessment of efficiency of organizational and technological decisions in shipbuilding industry.

**Key words:** shipyard, efficiency of decisions, management.

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