Describe the results of testing AIS technology and comparison analysis of monitoring systems with real and virtual AIDS to navigation; defines the problems of their integration.
**Key words:** real and virtual AIDS to navigation, AIS, ECDIS.
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Describe actual legal inconsistencies of active normative base.
**Key words:** hydraulic structures, classification, normative base.
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Describe general principles of accounting exploitation restrictions while normalizing seaworthy characteristics coastal navigation ships.
**Key words:** coastal navigation ships, exploitation restrictions, permissible wave’s height, remoteness from place of refuge, remoteness from shore, wind-wave conditions.
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Describe the complex of methods to improve port service for containered refrigerated cargoes. Analyses technology of their processes control for the purpose of increasing effectiveness.
**Key words:** port, containered refrigerated cargoes, mathematical model, parameters of quality.
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Describe perspective ways of improving ship diesels’ cooling systems; analyses factors which determine necessity of their modernization. Shows the results of realization of author’s approach.
**Key words:** ship’s diesel, cooling system, high-temperature cooling, reliability, economy, regulation of thermal state.
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Substantiates necessity of creation system of control and management of river differential subsystem of system GLONASS/GPS which realize continuous monitoring integrity of differential amendment’s field with considering different noises and heterogeneity of underlying surface unfluence.

**Key words:** river differential subsystem of GNSS, functional addition, increasing shipping safety, inland water ways, control-correcting station.

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Describes the author’s massive of informational technologies as the base of creation typical technological processes of cargo transportations – most rational sequence of transport technologies.

**Key words:** technological process, transport technology, cargo transportation.

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Shows the results of analysis of causes of transport accidents in 1998-2015 years in Obskiy basin with taking into account different factors. Describes the ways to decreasing quantity of such events.

**Key words:** water transport, water ways, accidents, safety of shipping, «human factor», Obskiy basin.

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