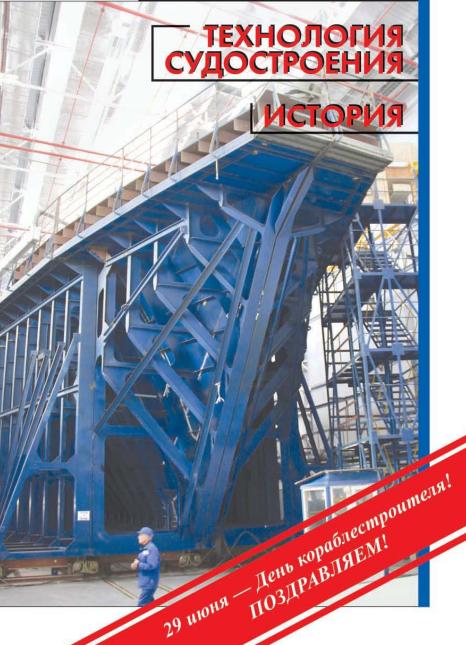


ПРОЕКТИРОВАНИЕ СУДОВ

№ 3 2017 май-июнь ВОЕННОЕ КОРАБЛЕСТРОЕНИЕ

> СУДОВОЕ ОБОРУДОВАНИЕ



SUDOSTROENIE 3 2017 /SHIPBUILDING/

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Assembly and test stand for GTE/GTU
AT SHIPBUILDING YARDS
NAVAL SHIPBUILDING

Patrol ice-breaker has been laid down

Sredne-Nevsky builds series of minesweepers

Yoltukhovsky V. M., Kharin V. I. First post-war minesweeping ships and boats.

This article reviews design and construction of minesweeping ships and boats in first post-war years. Photos and drawings of the same are attached.

Keywords: naval shipbuilding, history of shipbuilding, minesweeper, mine countermeasures ship, sweeper.

70th «Mangust»

SHIP DESIGN

Afanasiev S. N., Nefedovich A. V. Ships ergonomics in detail design specifications.

The author hereby mentions, that detail design of ship contains almost no data on ergonomic management and criticizes current approach to development of detail design specifications. Additions to the specification have been proposed in frames of ship ergonomics enhancement.

Keywords: ship, ergonomics, detail design, ergonomics provision program, specification, ergonomic expertise, human-system integration.

Zhivitsa S. G. Parametric resonance of ship roll as ship design factor.

The author hereby analyzes reasons and development features of intensive parametric ship roll at certain sea disturbance level. The author has noted that parametric resonance of ship roll will is typical for ice-class vessels and has given some practical proposals which could be considered at vessel design stage to avoid the same at unfavorable sea disturbance.

Keywords: ship roll, irregular disturbance, parametric resonance, vessel design.

«Almaz» has laid down three ships at once

SHELF DEVELOPMENT AIDS

Mogutin Yu. B., Guseva O. A., Veselova A. V., Vlasyev M. V. Arranging underwater service works at sea oil fields.

The author hereby reviews main issues in arranging underwater service works at sea oil fields. The information has been provided regarding periodicity and scope of service works and repair of underwater equipment and long-distance underwater facilities (pipelines, cables, hoses). Main adopted technologies have been described. Work duration factors have been analyzed. Description on applied underwater equipment and vessels has been given.

Keywords: oil and gas harvesting, service works, underwater mining facilities, underwater pipelines, servicing, repair, underwater vehicle, underwater engineering vessel, deep sea diving armor.

RESCUE GEAR

Ilyukhin V. N., Dotsenko O. G. Advancement of shipboard individual and group rescue gear for Arctic region.

This article is based on analysis of individual and group rescue gear onboard vessels and offshore platforms, experience of rescue works in Arctic region accumulated in Russian Federation, international and national technical standards for onboard rescue gear, and requirements given in Polar lawbook to ice-class vessels. The authors hereby justify their proposals on updating the regulatory documents and individual/group shipboard rescue gear to be used in Arctic region.

Keywords: emergency, Polar lawbook, individual rescue equipment, group rescue equipment, search and rescue support.SHIPBOARD EQUIPMENT

Martirosov G. G. Selecting optimal auxiliary tool for active vessel control. To facilitate selection of optimal auxiliary tool for active vessel control (ATAVC) the author has given comparative specifications of various ATAVC.

Keywords: active rudders, propulsion-steering tube, lateral thrusters.

SHIP POWER PLANTS

Conference «Engine-2017» and its decisions

SHIPBOARD CONTROL SYSTEM

Semenov D. O., Luskin B. A., Zakharov A. I., Mokhov I. A. Methods to define the design of automated UUV control system.

This article reviews methods for defining the design of automated control system considering various factors: functional zones, centralized or local control, structural and configuration options, creation cost, upgradeability.

Keywords: ship, automated control system, configuration, functional zones.

ECONOMY AND FINANCE

Grechanyuk A. N., Chepelenko O. A., Potryakhaev V. V. Technicaleconomic expertise as cost justification factor in shipbuilding and shiprepair industry.

This article analyzes applicable regulatory and guidance documents on defense equipment pricing. The authors have proposed to develop the regulatory document considering ship pricing aspects and mandatory technical-economic expertise on price calculation at all ship life cycles.

Keywords: pricing, regulatory and guiding documents, technical-economic expertise.

SHIPREPAIR AND UTILIZATION

Grants for disposal

Osmanov V. O., Amirov A. G., Orudzhev S. Sh. Defining technical conditions of steering machines using non-dismantling diagnostics method.

The authors narrate about experience in application of non-dismantling diagnostics method for tankers belonging to Azerbaijan Caspian sea company.

Keywords: steering machine, non-dismantling diagnostics, technical condition

Smirnov A. G. Failures of floating docks, emergency situations and reasons.

This article lists main types of failures, emergency situations and analyzes possible reasons of the same.

Keywords: floating dock, failure, damage, supporting device.

INFORMATION SECTION

Aleksandrov V. L. Shipbuilders' Association of St. Petersburg and Leningrad Region celebrates 25 years anniversary! (59). Khaustov A. N. New tugs at Ust Luga port (62). Barbanel B. A. Continuity of generations (64). June 29 is the Day of Shipbuilder (66). New books (67). Foreign information (68)

HISTORY OF SHIPBUILDING AND FLEET

Platonov A. V. Large shipbuilding program of 1938. Configuration and tasks of Naval forces.

This article analyzes backgrounds for development of shipbuilding program represented in February, 1938 as "Program for building combat and auxiliary ships for 1938–1945" which was conventionally named "BIG" and remained active up to commencement of the Great Patriotic War.

Keywords: history of shipbuilding, naval shipbuilding, shipbuilding program.

Podrepny E. I., Lyapin D. A. Building submarines at «Krasnoe Sormovo» yard on the eve of the Great Patriotic War.

On the basis of archive documents the author hereby narrates about submarine building in 1930–1945 at «Krasnoe Sormovo» yard (Yard No. 112).

Keywords: history of shipbuilding, naval shipbuilding, submarine building, submarine.

Tsekhanovskaya O. K. Paintings of artist A.P. Alekseev in the Naval Museum collection.

Collection of Central Naval Museum includes a few score of paintings drawn by major-general A.P. Alekseev (1846–1908(?) in so called «ship portrait» genre. The author tells biography of the painter and demonstrates reproductions of his original paintings.

Keywords: CNM collection, «ship portrait», marine painter.