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| УДК 656.61.052.484**A.N. Volkov, A.O. Yakushev***Odessa National Maritime Academy, Odessa, 65029**e-mail: volkov55@bigmir.net***USE OF SHIP SAFE AREA IN THE PROCESS OF NAVIGATION**We demonstrated the possibility of determination sizes and reflection of ship safe area from space of relative motion to space of veritable motion the electronic chart for cooperative registration of dangerous targets and navigation risks. We also obtained analytical expressions for transformation of area boundary, provided results of ship safe area simulation.**Key words**: safety of navigation; ship safe area; space of relative and veritable motion.*DOI: 10.17217/2079-0333-2015-31-7-11* **Information about authors****Volkov Alexandr Nikolaevich –** Odessa National Maritime Academy; Odessa, Ukraine, 65029; Senior Tutor of Navigation Chair; volkov55@bigmir.net**Yakushev Alexandr Olegovich –** Odessa National Maritime Academy; Odessa, Ukraine, 65029; Tutor of Navigation Chair; y.sash@mail.ru |
| УДК [664.8:582.272]:664.667**M.V. Efimova, A.S. Zadonskaya, A.P. Zenina***Kamchatka State Technical University, Petropavlovsk-Kamchatsky, 683003**e-mail: efimova-ff@mail.ru***FORMULATION OF FILLINGS WITH BROWN ALGAE FOR WADS**The article deals with research results regarding formulation of fillings with brown algae *Alaria* for wadson the example of brewing spice cakes. We studied quality in dexes of spicecakes. We specified rational quantity of added algae, it is 21,4% of mass of filling base – sum of water mass and fruit jam mass. Nutritive and food value of final productis determined. The use of fillings with algae allow to enrich traditional production with valuable nutrients and ballast substances of water origin.**Key words:** wads, spice cakes, fillings, brown algae, enrichment, organoleptic parameters, physico-chemical parameters.*DOI: 10.17217/2079-0333-2015-31-11-17***Information about authors****Efimova Marina Vasilevna –** Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Candidate of biological sciences; Associate Professor; Head of Food Production Technologies Chair; efimova-ff@mail.ru**Zadonskaya Anzhelika Sergeevna** – Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Postgraduate; efimova-ff@mail.ru**Zenina Alena Petrovna** – Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Undergraduate; efimova-ff@mail.ru |
| УДК 517.957**I.A. Ilin1, 2, 3, D.S. Noshchenko1, A.S. Perezhogin1, 3***1Institute of Cosmophysical Researches and Radio Wave Propagation, Paratunka, Kamchatka, 684034;* *2Kamchatka State Technical University, Petropavlovsk-Kamchatskу, 683003;* *3Vitus Bering Kamchatka State University, Petropavlovsk-Kamchatskу, 683032**e-mail: d951039@gmail.com***SOLITON SOLUTIONS FOR NONLINEAR 7TH ORDER KDV-TYPE EQUATIONS**In this study we investigated some families of 7th order nonlinear PDEs. With ∂ log substitution we obtained conditions for one-and two-soliton solutions. We also described algebraic equations derived from initial differential operator.**Key words:** direct method, nonlinear differential operator, solitons, parametrical expansion.*DOI: 10.17217/2079-0333-2015-31-18-22***Information about authors****Ilin Igor Aleksandrovich** – Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Candidate of physical and mathematical sciences; Associate Professor; Assistant Professor of Higher Mathematics Chair; d951039@gmail.com**Noshchenko Dmitry Sergeevich** – The Institute of Cosmophysical Research and Radio Wave Propagation FEB RAS; Paratunka village, Kamchatskiy krai, Russia, 683003; Researcher of science; d951039@gmail.com**Perezhogin Andrej Sergeevich** – The Institute of Cosmophysical Research And Radio Wave Propagation FEB RAS; Paratunka village, Kamchatskiy krai, Russia, 683003; Candidate of physical and mathematical sciences; Researcher of science; d951039@gmail.com |
| УДК [553.981:556.3]:550.8.013**A.V. Kiryuhin1,2, P.O. Voronin1,2, N.I. Korzun 2***1Institute of Volcanology and Seismology FEB RAS, Petropavlovsk-Kamchatsky, 683006,**2Kamchatka State Technical University, Petropavlovsk-Kamchatskу, 683003**e-mail: AVKiryukhin2@mail.ru***GAS, HYDRO, DYNAMIC SIMULATION OF WATER-METHANE RESERVOIRS OF VOLCANOGENIC BASINS**This paper provides data on the characteristics and conditions of formation ofgas and oildeposits in the volcanogenic basins of Kamchatka and Japan. It presents the ideas of geological models of Kshuksky and Lower Kvakchiksky gas condensate fields(GCF), associated with Neogene-Paleogene volcanogenic-sedimentary complexes of Kolpakovsky depression, Western Kamchatka. The performed work involved assembling and calibrating of generalized geofiltrational models of the above mentioned deposits according to the data of their operation record in accordance with their division to productivegas-saturatedreservoirs andlow-permeabilitywater-saturatedreservoirswith large capacity. It is shown that the main parameters, controlling theflow of water intoproductivegas-saturatedreservoirs, includepermeability of the water-saturatedcomplexand the volume ratio of the productive gas-saturated reservoir and host water-saturated complex.Water-methane reservoirs of Avachinsky-Koryaksky volcanogenic basin are of Neogene-Quaternary age, and adjacent to the magma reservoirs of corresponding volcanoes, the area with significant gas resources is estimated at~650km2,the formation of gas deposits beneath volcanoes may occur as a result of geomechanical and thermal effects of magma.The study also embraced a multivariant predictive TOUGH2-modeling of a fragment of gas-saturated productive reservoir with the parameters of Etolonsky Formation (N1 et), taking into account the flooding from the host water-saturated complex. **Key words:** volcanogenic, basin, methane, modeling, TOUGH2, flooding, reservoir, operation, forecast, Kshuksky, Lower Kvakchiksky, Avachinsky-Koryaksky, Kamchatka.*DOI: 10.17217/2079-0333-2015-31-23-33***Information about authors****Kiryukhin Aleksei Vladimirovich** – Institute of Volcanology and Seismology FEB RAS; Petropavlovsk-Kamchatskу, Russia, 683006; Doctor of geological and mineral sciences; Professor; Head of Heat and Mass Transfer Laboratory; AVKiryuhin2@mail.ru**Voronin Pavel Olegovich** – Institute of Volcanology and Seismology FEB RAS; Petropavlovsk-Kamchatskу, Russia, 683006; Engineer of Heat and Mass Transfer Laboratory; Malgor90@mail.ru**Korzun Natalya Igorevna** – Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Student; Johntiter36@yandex.ru |
| УДК 621.396.676 **D.V. Kovalev1, J.V. Kusutkin1 , V.P. Sivokon1, 2***1Kamchatka State Technical University, Petropavlovsk-Kamchatsky, 683003;**2Institute of Cosmophysical Research and Radiowave Propagation, Far East Division,* *Russian Academy of Sciences, Paratunka, Kamchatka, 684034**e-mail: vsivokon@mail.ru***POSSIBILITY OF METAMATERIALS APPLICATION IN SHIPBOARD ANTENNAS**We studied possibilities of metamaterials application in shipboard antennasof radio engineering systems for the purpose of reduction of their linear dimensions and effectiveness increase.**Key words:** мetamaterials, antennas.*DOI: 10.17217/2079-0333-2015-31-33-36***Information about authors****Kovalev Dmitrij Viktorovich.** – Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Student; nafanya-dima@mail.ru**Kusutkin Yurij Vladimirovich** – Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Student; degander\_sr@mail.ru**Sivokon Vladimir Pavlovich** – Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Doctor of technical sciences; Associate Professor; Professor of Electro- and Radioequipment of Ships Chair; vsivokon@mail.ru |
| УДК 519.85:621.3.011.7**G.А. Pjukke***Kamchatka State Technical University, Petropavlovsk-Kamchatsky, 683003***THE APPLICATION OF GAUSSIAN NOISE AS A TEST SIGNAL WHILE DIAGNOSTICS** **OF ELECTRIC CIRCUITS**The method offered in work based on use of white noise with a limited spectrum as a test signal. Analytical calculation of parameters of set making a component of system under condition of Gaussian noise influence on a circuit is given. The uniform size of equivalent resistance *R*э is entered regardless of the character of considered (examined) components, at replacement of all making a component of various character on resistive components with their subsequent regulation. It enables to exclude from consideration the analysis of the phase parities (ratio) which is carried out at use of determined sine wave signals and to use white noise as a test signal at diagnosing the electric circuits containing jet elements.**Key words:** white noise, ergodic process, scalar addition, a statistical error, correlation.*DOI: 10.17217/2079-0333-2015-31-37-44***Information about author****Pyukke Georgy Alexandrovich** – Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Doctor of technical sciences; Associate Professor; Professor of Control Systems Chair; geopyukke@yandex.ru |
| УДК 621.396.932**Y.M. Ustinov1, V.S. Kan2, A.V. Kan2, A.I. Kulinich2***1State University of Maritime and Shipping n.a. Admiral Makarov, 198035,**2Kamchatka State Technical University, Petropavlovsk-Kamchatsky, 683003**e-mail: kan\_vs@kamchatgtu.ru***THE INCREASE OF IMMEDIACY AND RELIABILITY OF HF RADIO COMMUNICATION ON THE NOTHERN SEA ROUTE ROADS WITH THE COASTAL AND BASE GMDSS STATIONS**The necessity of the increase of maritime safety information (MSI) NAVTEX stations, coastal stations and base stations for improving safety and efficiency of navigation on the Nothern sea route (NSR) roads is grounded.**Key words:** Nothern sea route, base stations, sea area of GMDSS, Inmarsat system, point of transmission NAVTEX, digital selective calling, maritime rescue coordination center and subcenter.*DOI: 10.17217/2079-0333-2015-31-45-47***Information about authors****Ustinov Yurij Matveevich** – State University of Maritime and Shipping n.a. Admiral Makarov, Saint-Petersburg, Russia, 198035; Doctor of technical sciences; Professor; Professor of Technical Means of Navigation Chair; avt@gmail.ru**Kan Vladimir Sinkhovich** – Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Candidate of technical sciences; Associate Professor; Deputy Head of the Regional Centre of the Marine Additional Professional Education; kan\_vs@kamchatgtu.ru**Kan Artem Vladimirovich** – Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Postgraduate; kan\_vs@kamchatgtu.ru**Kulinich Andrej Ivanovich** – Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Postgraduаte; yakyak13@mail.ru |
| УДК 620.19:629.5.023**V.A. Shvetsov1, P.A. Belozerov2, N.V Adelshina3, V.V. Kirnosenko4 O.V. Belavina1***1Kamchatka State Technical University, Petropavlovsk-Kamchatsky, 683003;****2****Ministry of Defence of the Russian Federation****,*** *Petropavlovsk-Kamchatsky, 683000;**3Eastern military region of the Ministry of Defence of the Russian Federation, Petropavlovsk-Kamchatsky, 683000;**4Open joint-stock company «Kamchatskenergo», Petropavlovsk-Kamchatsky, 683030**e-mail: oni@kamchatgtu.ru***TEST OF DEVICE USED FOR INDICATIONS VALIDATION OF SILVER CHLORIDE REFERENCE ELECTRODES**The article provides a test device to check the readings of reference electrodes. The electrodes are used to control the system of electrochemical protection body of the passenger vessel. During the test, the potential difference measured between electrodes comparison. The device for indications validation of silver chloride reference electrodes elaborated by the authors was used for system check of hull’s electrochemical protection of passenger ship «Vasily Zavoiko». During tests potential difference between different reference electrodes was measured. The results obtained were subjected to statistical analysis. Research results showed that the application of the device elaborated by the authors for indications validation of silver chloride reference electrodes on board of the ship «Vasily Zavoiko» had not caused difficulties for the crew. Therefore, this device can be used on any ships and vessels. It will make possible for the crews to exercise on-line monitoring of protection system state of steel ships and vessels hulls. The results of this monitoring will enable to guide ships and vessels to the dock timely. It will reduce the cost of ship repair activities and their due dates.**Key words:** corrosion of ships and vessels steel hulls, electrochemical protection of ship’s hull from corrosion, protective potential measurements of the ship’s hull, reference electrode, method of measuring the potential of ships and vessels steel hulls.*DOI: 10.17217/2079-0333-2015-31-47-55***Information about authors****Shvetsov Vladimir Alexeevich –** Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Doctor of chemical sciences; Associate Professor; Professor of Elctro- and Radioequipment of Ships Chair; oni@kamchatgtu.ru**Belozyorov Pavel Alexandrovich –** Ministry of Defence of Russian Federation;Postgraduate of Kamchatka State Technical University;Electrik\_251288@mail.ru**Adelshina Natalya Vladimirovna** – Eastern Military Region of the Ministry of Defence of the Russian Federation; 683000, Russia, Petropavlovsk-Kamchatskу; Engineer of 718th Regional Ecological Centre; oni@kamchatgtu.ru**Kirnosenko** **Vladimir Vladimirovich** – Branch of Kamchatskenergo Central electrical networks, Plc.; Petropavlovsk-Kamchatskу, Russia, 683030; Head of Technological Connection to Electrical Net-Works Department; oni@kamchatgtu.ru**Belavina Olga Alexandrovna –** Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Research officer of science and innovation department; oni@kamchatgtu.ru |
| УДК 578:597.552.512**L.P. Dragan***Institute for Fisheries of the Ukrainian Academy of Agrarian Sciences, Kiev, 03164**e-mail: dragan\_l@ukr.net***ASSESSMENT OF THE ANTIOXIDANT SYSTEM IN THE BLOOD SERUM OF FINGERLING RAINBOW TROUT (ONCORHYNCHUS MYKISS) INFECTED WITH IPN VIRUS**Viral infections of hydrobionts arising in the process of aquaculture intensive development cause considerable damage in this field. The biggest losses of fish production cause viruses of pancreatic necrosis. Virus promotes necrotic damage of pancreas and also provokes stress increasing the processes of lipids oxidation. Astheresult of carried out research it is established that virus invasion of infectious pancreatic necrosis disturbs the balance in provident-antioxidant system in the blood serum of fingerling rainbow trout and is displayed by intensification of lipids oxidation, degradation of antioxidant protection, allows to consider the obtained results as a significant chain in pathogenesis of infectious disease.**Key words**: rainbow trout, virus of infectious pancreatic necrosis, antioxidant protection system.*DOI: 10.17217/2079-0333-2015-31-56-60***Information about author****Dragan Lyudmila Petrovna** **–** Institute of Fisheries of National Academy of Agrarian Sciences of Ukraine; Kiev, Ukraine, 03164; Candidate of biological sciences; Senior Reseacher of Biotechnologies in Fish Breeding Laboratory; dragan\_l@ukr.net |
| УДК 582.533(265.52)**A.V. Klimova1, R.C. Klyukina1, A.A. Bonk1,2, N.G. Klochkova1***1Kamchatka State Technical University, Petropavlovsk-Kamchatsky, 683003;* *2Kamchatka Research Institute of Fishery and Oceanography (KamchatNIRO),* *Petropavlovsk-Kamchatsky, 683000**e-mail:* *annaklimovae@mail.ru***THE ROLE OF SEA WEEDS IN FORMATION OF SPAWNING SUBSTRATE OF PACIFIC HERRING**The observations of seasonal development and distribution of sea weed *Zostera marina* in the bay of Korf (in the bays Sibir’ and Scobeleva) were presented. The information about dimensional characteristics of its Bering Sea population in spring time was submitted for the first time. The expert estimation of *Zostera* reserves and area of its growth in shallow zone of the bay using satellite aero-photographs were given. In its northern part the total bottom square covered with sea weeds is 11,19 km2, the total dry solid matter is more than 5000 tons. It was detected that the total surface of vegetative substrate formed by *Zostera*, good for spawning of Korf-Karaginskiy population of Pacific herring is not less than 28,86 km2.**Key words:** Zostera marina, Zosteraceae, sea weeds, Pacific herring, eggs laying, spawning substrate, the bay of Korf, eastern Kamchatka.*DOI: 10.17217/2079-0333-2015-31-60-66***Information about authors****Klimova Anna Valerevna –** Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Researcher of science and innovation department; annaklimovae@mail.ru**Klyukina Regina Sergeevna** – Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Head Office of Water Bioresources, Fishery and Aquaculture Chair; stephanodiscusalpinus@mail.ru**Bonk Aleksandr Anatolevich** – Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Candidate of biological sciences; Associate Professor; Head of Water Bioresources, Fishery and Aquaculture Chair; bonk\_aa @kamchatgtu.ru**Klochkova Nina Grigorevna –** Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Doctor of biological sciences; Vice-rector on scientific work; ninakl@mail.ru |
| УДК 593.96(265.5)**Е.G. Panina, V.G. Stepanov***Kamchatka Division of Pacific Institute of Geography, Far East Branch, Russian Academy of Sciences, Petropavlovsk-Kamchatsky, 683000**e-mail:* *panina1968@mail.ru***LIST OF SPECIES OF THE SEA CUCUMBERS (HOLOTHUROIDEA) IN THE FAR-EASTERN SEAS OF RUSSIA. II. THE ORDER ASPIDOCHIROTIDA GRUBE, 1840** You can find a list of species composition of thyroidtentaculate sea cucumbers of Aspidochirotida order in the Far-Eastern seas of Russia. Every species is accompanied by modern name, synonymy, information about distribution in the Bering, Okotsk, Japan seas, at south-east Kamchatka and Kuril Islands. Part of the species is illustrated with original pics of external structure. New location for Pseudostichopuspapillatus in the area of Kuril Islands at the depths of 182-186 meters is stated. Before in the Far East seas it was recorded only at south-east Kamchatka, near c. Shipunsky at the depths of 4100–4200 meters.**Key words:** fauna of holothurian, class Holothuroidea, order Aspidochirotida, sea cucumber, Far-Eastern seas of Russia.*DOI: 10.17217/2079-0333-2015-31-66-76***Information about authors****Panina Elena Grigorevna –** Kamchatka branch of Pacific Geographical institute FEB RAS; Petropavlovsk-Kamchatskу, Russia, 683000; Candidate of biological sciences; Research assistant of Hydrobiological Laboratory; panina1968@mail.ru**Stepanov Vadim Geogievich –** Kamchatka Branch of Pacific Geographical Institute FEB RAS; Petropavlovsk-Kamchatskу, Russia, 683000; Candidate of biological sciences; Researcher of Hydrobiological Laboratory; vgstepanov@inbox.ru |
| УДК 658:332.72**T.I. Avanesova***Kamchatka State Technical University, Petropavlovsk-Kamchatsky, 683003**e-mail: allahi@mail.ru***EVALUATION METHODS OF ENTERPRISES EFFICIENCY INDEXES AT REAL ESTATE MARKET**The article reveals the concept of «economic impact» and «economic efficiency». Characteristics of performance evaluation of real estate agencies are defined. Dedicated a system of economic indicators and calculation methods of the actual agency activities of real estate are marked out.**Key words:** agency activities, real estate, economic impact, economic efficiency, expenses, profit, profitability, capital productivity, return, reimbursement.*DOI: 10.17217/2079-0333-2015-31-77-82***Information about author****Avanesova Tamara Ivanovna –** Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Associate Professor; Assistant professor Economy and management chair; allahi@mail.ru |
| УДК 639.2/.3(571.66)"1941/1945"**S.V. Gavrilov***Kamchatka State Technical University, Petropavlovsk-Kamchatsky, 683003**e-mail: gavrilov\_sv@kamchatgtu.ru***OZERNOVSKIY FISH PRODUCING PLANT OF JOINT-STOCK KAMCHATKA COMPANY DURING THE GREAT PATRIOTIC WAR**Peculiarities of functioning of one of the biggest fishing plant in Kamchatka – Ozernovskiy fish producing plant during the war period (1941–1945 гг.) are characterized. There is also public-political environment and labour raise accompanied the work of plant’s staff. Their motto at that time was: «More fish for country and for front!»**Key words:** Оzernaya River, Ozernovskiy fish producing plant, joint-stock Kamchatka company, fish cannery, canned food, bottom gill net, salmon, fishing (season).*DOI: 10.17217/2079-0333-2015-31-82-88***Information about author****Gavrilov Sergej Vitalevich –** Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Associate Professor; Assistant professor of Electro- and Radioequipment of Ships Chair; gavrilov\_sv@kamchatgtu.ru |
| УДК [378:51]:004.9**N.L. Nedvigina***Kamchatka State Technical University, Petropavlovsk-Kamchatsky, 683024**e-mail: vm-kafedra@yandex.ru***MAIN STAGES OF DEVELOPMENT, OBJECTIVES, CONTENT AND SHELL ELECTRONIC TEXTBOOKS**This article focuses on the main stages of development, objectives, goals, forms, thematic content, blocks, advantages, features and capabilities, and the shell of the electronic textbook with multimedia applications.**Key words:** innovation, learning process, electronic textbook, shell, navigation mechanism, rendering the material adaptation, «administrator», «user», multimediatechnology.*DOI: 10.17217/2079-0333-2015-31-89-94***Information about author****Nedvigina Natalya Leonidovna** – Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Senior tutor of Higher Mathematics chair; vmkafedra@mail.com |
| УДК 336.711**M.V. Pavlova***Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003**e-mail: mar.so@mail.ru***TARGET KEY POINTS OF MONETARY AND CREDIT POLICY OF THE BANK OF RUSSIA IN THE MODERN STAGE OF ECONOMY DEVELOPMENT**The article deals with issues of monetary sphere management, as far as monetary and credit policy in short-term period influences the actual sector of economy which is stated in economics at present time.Even plenty of foreign literature, opportunity to use practice of western central banks and our own historical experience of monetary and credit regulation don’t allow to assert that in Russia there is acceptable mechanism including Central Bank with well-established functions which can provide achievement of necessary goals of economic development with monetary and credit policy. Regular changes at national financial markets, unstable position of national bank system confirm this situation.*DOI: 10.17217/2079-0333-2015-31-94-100***Information about author****Pavlova Marina Vladimirovna –** Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; candidate of economic sciences; Associate Professor; Dean of Economy and Management Faculty; Mar.so@ mail.ru |
| УДК 811.111'373**T.S. Povarnitsina***Kamchatka State Technical University, Petropavlovsk-Kamchatsky, 683003**e-mail: blondtanya.78@mail.ru***LEXICO-THEMATIC CHARACTERISTICS OF THE BRITISH LANGUAGE COURSE 'ENGLISH FOR MARITIME STUDIES'**The present article is concerned with the possibilities of the use of British authentic language courses for teaching Marine English to the Russian students. Using the British language course 'English for Maritime Studies' as an example, the author of the article analyzes the main thematic groups of words used in such language courses, defines their correlation, compares their lexical content with the academic programs of the main marine specialities. **Key words:** lexico-thematic group, professionalisms, Marine English.*DOI: 10.17217/2079-0333-2015-31-100-104***Information about author****Povarnitsina Tatyana Sergeyevna** – Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Candidate of philological sciences; Assistant Professor of Foreign Languages Chair; blondtanya.78@mail.ru |
| УДК 797.2**E.A. Rudenko, O.A Kucherova***Kamchatka State Technical University, Petropavlovsk-Kamchatsky, 683003**e-mail: leru41@mail.ru***IMPROVEMENT OF SWIMMERS TRAINING PROCEDURE**High sports results are reached by the athletes perfectly developed in the physical aspect who mastered technique and tactics of swimming and demonstrated necessary moral and strong-willed qualities while developing training loadings. According to it, technique including physical, technical, tactical, theoretical and strong-willed types of training is developed and put into practice in the system of sports training of the combined team of KamchatGTU. Approbation of the method is carried out at Kamchatka State Technical University.**Key words:** swimming, speed, dexterity, endurance.*DOI: 10.17217/2079-0333-2015-31-104-108***Information about authors****Rudenko Elena Alexandrovna** – Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Candidate of educational sciences; Associate Professor; Assistant Professor of Physical Culture Chair; leru41@mail.ru**Kucherova Olesya Alexandrovna –** Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Senior tutor of physical culture chair; lyasya3@rambler.ru |
| УДК 93(470)"1950/2014":94(571.66).084.3**N.V. Tolkacheva***Kamchatka State Technical University, Petropavlovsk-Kamchatsky, 683003**е-mail: kamchatgtu@kamchatgtu.ru***RUSSIAN HISTORIOGRAPHY FROM THE SECOND PART OF THE XXTH CENTURY UP TO NOWADAYS OF THE HISTORY OF THE CIVIL WAR IN KAMCHATKA**This article is devoted to the analysis of Russian historiography from the second part of the XXth century up to nowadays of the history of the civil war in Kamchatka. **Key words:** historiography, the history of the civil war, the Far East, Kamchatka, the North East of Russia.*DOI: 10.17217/2079-0333-2015-31-109-116***Information about author****Tolkacheva Nataliya Vladlenovna** – Kamchatka State Technical University; Petropavlovsk-Kamchatskу, Russia, 683003; Candidate of historical sciences; Assistant professor of History and Philosophy Chair; kamchatgtu@kamchatgtu.ru |