УДК 553.411.08:546.59

**ELABORATION OF INNOVATIVE TECHNOLOGY OF PREPARING SAMPLES
OF GOLD-BEARING MINERAL MATERIAL FOR ANALYSIS**

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We offer innovative technology of preparing samples of gold-bearing mineral material for analysis. It allows to lower electric power consumption costs, to cut down the process duration, to decrease the wear and tear of equipment, to improve working conditions of laboratory assistants. Static handling of experiment results showed the quantity of material with fineness of grain +0,1 mm received during grinding process doesn’t depend on sample humidity in the range of its value from 0 to 3%.

**Key words:** preparingsamples for analysis, -bearing mineral material, sample humidity, sample drying in microwave oven.

УДК 621.396.932:639.2.06

**THE MAIN DIRECTIONS OF MODERNIZATION OF EQUIPMENT
OF HIGH-FREQUENCY RADIO FISHING VESSELS TO COUNTER
THE MUTUAL AND PULSE INTERFERENCE**

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It is shown that the mutual and pulse interferences have a significant impact on radiocommunication in high-frequency range. The main methods of counteraction to mutual and pulse interferences are examined.

**Key words:** atmospheric noise, impulse noise, amplitude, ionosphere, frequency.

УДК 621.313.333

RESEARCH OF PROCESSES OF ELECTRIC CARS DYNAMIC LOADING
AT MALFUNCTIONS IN A STATOR WINDING

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At the given article we represent the model allowing to carry out sharp dumping of feeding tension frequency of a synchronous engine. The schedule of capacity allows to judge of the electric motor change to a generating mode. The method of tension reduction is theoretically grounded.

**Key words**: asynchronous engine, dynamic loading, recuperative braking, generating mode.

УДК 519.8

**NEURAL NETWORK APPROACH TO CONSTRUCT MODELS
OF HIGH-DIMENSIONAL SYSTEMS ANALYSIS**

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The method offered in the given work is based on the use of neural network approach and allows to create the conditions of the general solution of complex poorly formalized problems of identification of states of high dimensionality systems, while the procedure for the formation of the algorithm succession of actions is difficult. In such cases the effectiveness of neural network approach is shown in full measure and can be successfully used to solve the problems of the analysis of complex systems. The problem of identification of models, data clustering and pattern recognition are carried out.

**Key words:** identification attribute, neural network, space of identification, function of activation, synaptic connections.

УДК 621.3.011.7

**METHOD OF DIAGNOSTIC EXPERIMENT
AT DIAGNOSING BRANCHED ELECTRICAL CIRCUITS**

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The method offered in the article is based on the white noise usage with a limited spectrum as a test signal. Analytical calculation of parameters of a set making component of a system under the condition of influence on a circuit Gaussian noise. The uniform size of equivalent resistance $R\_{э}$ is entered regardless of the character of examined component at replacement of all constituents making component of various character on resistive components with their subsequent regulation. It enables to eliminate phase ratio analysis from the examination which is carried out while using determined sinusoidal 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.

УДК 621.311

**ELECTRIC DEVICES CONTACT GROUP VERIFIER
FOR FINDING DEFECTS FOR INDUSTRIAL AND HOUSEHOLD PURPOSES**

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The article raises the question of the safety of human life in the operation of various electrical equipment, as well as the need to create a modern device checking protective equipment with a low weight and size and price indicators, provides an overview of existing inspection devices apparatus of the contact group and the ways of their improvement.

**Key words**: modernization, introduction, ionistor, the protection of electrical equipment.

УДК 621.822:519.6

**ANALYSIS OF LOAD CARRYING CAPACITY
OF ANNULAR-THRUST AEROSTATIC POROUS BEARINGS**

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The article proposes a new method, based on Darcy’s law, Reynolds equation and finite element method, which allows calculating the load carrying capacity of aerostatic porous bearings with essentially three-dimensional air flow without using iterations. The method has been successfully tested on the simplest model of axial-thrust bearing. On the base of the computation results, the recommendations are done considering the optimal choice of bearing arc length and porous material permeability, providing high load carrying capacity in both radial and axial directions and sufficient bearing stiffness.

**Key words:** load carrying capacity of bearings, aerostatic lubrication, finite element method, porous bearings.

УДК 664.951.2: 639.211

**RESEARCH OF INFLUENCE OF JCOMBINED USE
OF SOME BARRIER FACTORS ON THE PROCESSES
OF MILDLY SALTED SALMON MATURING**

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The given article deals with the influence of combined use of a complex of barrier factors which includes adding khitozan and phosphates into salting mixture, making salty injections to fish and salt adding on the processes of mildly salted blueback salmon maturing. As parameters of intensity of process of maturing such physical and chemical parameters as buffer action and a limiting pressure of shift are chosen. Dependence between a set of barriers and intensity of process of fish biochemical maturing of salmon`s meat is established.

**Key words:** salmon, blueback salmon, fish salting, biochemical maturing, buffer action, a limiting pressure of shift.

УДК 581.526.325.3(268.4)

**DATA INTERPRETATION OF PHYTOPLANKTON FLUORESCENCE
IN THE WESTERN SECTOR OF THE RUSSIAN ARCTIC**

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Within the fisheries research PINRO a comprehensive monitoring of phytoplankton was performed. It included biological and hydro-chemical analysis. The use of hydro-optical systems have been recently implemented for these purposes. The observations were made in the Barents, Kara, Norwegian Seas, in the area west of the British Isles and in the Kola Bay. Seasonal and spatial variability of the observed characteristics were estimated. The consistency of tested parameters to each other was analyzed.

**Key words:** phytoplankton, fluorescence, hydro-chemical parameters, photosynthesis, Barents Sea, Arctic.

УДК 597.2/.5 (265.52)"2012"

**THE RESULTS OF SPRING RESEARCH OF ICHTYOPLANKTON
IN THE BAY OF AVACHA**

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The article presents study results of ichtyoplankton in the bay of Avacha in spring 2012. On the basis of vertical catch larva of seven fish species were found. From march to june we observed the biggest catch with the majority of larva of Sebastidae family (mosty Aleutian perch).

**Key words**: number of larva, the Avachinsky bay canyons, spring ichtyoplankton, vertical catching, ecological groupings.

УДК 330.142.211:639.2(571.66)

**STATE ANALYSIS OF FISHING INDUSTRY FIXED ASSETS
IN KAMCHATKA REGION**

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The given article deals with the selection and grouping of the initial information for the state **analysis**  and use of fixed assets of the coastal fishery. We designed a set of indicators which forms the basis for determining the factors influence characterizing the influence of fixed assets use on the volume of production.

**Key words:** fixed assets, fund capacity, availability of fixed assets, fund profitability.

УДК 330.322:352.07

**INVESTMENT POLICY OF THE MUNICIPALITY**

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This article defines the essence, the role of the investment policy of the municipal formation and use of technologies of municipal strategic planning for its implementation.

**Key words:** municipal investment policy, municipal strategic planning, investment attractiveness, the sectoral structure of investments, the investment needs of the municipality.

УДК 330.322:332.1

**REGIONAL INVESTMENT STRATEGY: PROBLEMS
OF THE PURPOSEFUL INDICATORS DETERMINATION**

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We defined the range of problems concerning purposeful indicators and information tracing of state strategy realization. We offered to expand the system of some indicators used during monitoring, to change the processes of collecting and processing of information.

**Key words:** investment strategy, purposeful indicators,informational ensuring, strategy realization.

УДК [331.522+657.6]:334.012.64

**ENHANCEMENT OF HUMAN RESOURCES EMPLOYMENT AND AUDIT
AT SMALL ENTERPRISES**

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The article deals with the necessity of paying special attention to personnel labour organization at small enterprises. We offer some logistical and socio-economicmeasures for improving human resources employment and wages fund at small enterprises. We advised some auditing procedures for making audit at given economical enterprises.

**Key words:** personnel, labour force, labour organization, small companies, socio-economic measures. Wages, auditing procedures.

УДК 336.71:330.45

**OPTIMIZATION OF CASH FOREIGN CURRENCY RESERVES
AT THE COMMERCIAL BANK**

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This paper presents an overview of the most commonly used models to optimize reserve of the cash. Proposed the use of existing methods for solving the currency liquidity management tasks in commercial banks, provided that decisions will be made not by peer review, but based on the forecast performed using asynchronous harmonic analysis.

**Key words:** optimal order size, Miller-Orr model, forecast, asynchronous harmonic analysis.

УДК 340.134

**THE NOTION AND TECHNICAL-LEGAL NATURE OF LAW DEFINITION**

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This issue is devoted to the problem of role and significance of the legal definitions in the Russian Federal law. Author gave special attention to the problem of conjunction of logical and judicial criteria of correct definition. The definition of “legal definitionˮ was given. Besides author tried to analyze practice of usage of definitive normative-legal prescriptions in Russian Federal law.

**Key words:** law, rule of law, normative-legal prescription, definition, standard-definition.

УДК 81'42

**DIALOGITY OF THE WORK OF ART AS A DISCURSIVE PHENOMENON**

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The article deals with the intertextuality, as a feature of the text (of speech in general), which is understood as the inscribing of the text or speech into the cultural context, its original dialogity. The philosophy of dialogue, theoretically based on the works of M. Bakhtin, understands discourse as a dialogue-interchange of different voices, and the novel - as artistic organized «social multilingualism». The dialogical strategy of the author, expressed in the dialogue, can be presented in the form of the system of discourse markers (words). They indicate the zone of contact of the author and the addressee. They represent lexical, syntactic and stylistic means of text’s dialogization. Their special combination of points testifies of explicit or the implicit nature of the author's dialogue.

**Key words**: dialogity, discourse, explicit, implicit, context, monologue, multilingualism.

УДК 378.147: 94

**THE ROLE OF RATING SYSTEM IN ACTIVIZATION OF STUDENTS EDUCATIONAL
ACTIVITY (ON THE EXAMPLE OF “MODERN HISTORY” TEACHING)**

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The role of rating system in activization of students educational activity is analyzed, the metod of tests development for advanced students is described basing on the teaching experience of modern history.

**Key words:** rating system, balls, students educational activity, activization, tests, knowledge Assessment.

УДК94(47)(092)

**NATALIA SHELIKHOVA IN THE HISTORY OF RUSSIAN AMERICA REVIEW
ON THE BOOK A.Y. PETROV “NATALIA SHELIKHOVA IS AT
THE VERY BEGINNING OF RUSSIAN AMERICA”)**

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The book itself represents biographical research and is devoted to the life of one prominent woman living at the end of 18 – beginning of the 19 centuries. She is Natalia Shelikhova who actually ruled Russian colonies in Alaska during her husband’s absence and after his death with the help of her relatives she achieved success with Paul I permitting her to establish Russian-American companies.

**Key words:** N.A.Shelikhova, Russian America, Russian-American companies, trade-industrial development, monopoly,merchant class.

УДК 81'38

**LINGUISTIC MEANS OF ARGUMENT EXPANSION IN JOURNALISTIC GENRE**

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The article deals with the research of specific argument peculiarities in journalistic genre. Journalistic genre is a subsystem of literary language, possessing it`s own specific peculiarities in vocabulary, phraseology, syntactic constructions. From the argumentation point of view, the field of given genre functioning was formed in periodical press, having influenced the social opinion, effectiveness of using which results in manipulation reader`s perception, where the principal are the factual saturation and the linguistic means economy.

**Key words**: journalistic, argument, peculiarity, function.