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E.A. DERGACHEVA

**CONTEMPORARY GLOBALIZATION AS THE PROCESS OF INTEGRATIVE SOCIAL-TECHNOGENIC AND BIOSPHERIC CHANGES**

*The article considers the modern globalization as a process contributing to social-technogenic and naturalbiological changes.Market-oriented character of development of the modern global society leads to widespread on the planet artificial substances and technologies, as they are highly profitable.This utilitarian-pragmatic orientation of the world's scientific and technological development is the main cause of global transformations in society and man, the technosphere and the biosphere.Therefore, globalization should not be seen simply as a socioeconomic and socio-natural phenomenon, but as a wider process of integrative social, artificial and natural changes.*

***Keywords:*** *globalization, social, technogenic and natural biological processes, biosphere, technosphere, society.*

K. KOLIN

**STRATEGIC PRIORITIES OF THE RUSSIA’S DEVELOPMENT**

*The problems of Challenges of the XXI century andthe determination the strategic priorities of Russia's medium-term development in its geopolitical environment current conditions, as well as the formation of a global information society are the main streams of the recent time. It is shown that such priorities are human issues, improving the efficiency of public administration and the implementation of new scientific and technological revolution. Address the most urgent tasks for each of these priority areas.*

***Keywords:*** *humanitarian revolution, information warfare, information society, quality of life, science and technology, national security, education, information security strategy.*

V.M. UDOD, I.L. VILDMAN

**ENVIRONMENTAL ASSESSMENT ANTHROPOGENIC TRANSFORMATION HYDROECOSYSTEM INGULETS RIVER**

*At the priority level we offer the complex of ecological approach for assessment of the river Ingulets' hydroecosystems. The basis of which is the biocenotic control level . This level helps to appreciate the intensity of the processes of biosynthetic in the hydroecosystem and to characterize the mechanism of violation of trophic, selfregulative, spatial relationships and others relationships in hydroecosystems. From which are depended their ecological safety and safe development.*

***Keywords:****hydroecosystems, specialized modified factors, biocenotic level of control, the carrying capacity, assimilative capacity, specialized technogenic.*

Z.V.BUKO, L.A.SHIBEKA, A.V.LIKHACHEVA

**USE OF NONHYDROLYZABLE RESIDUE OF PEAT IN WASTEWATER TREATMENT PROCESS**

*The article presents the results of research aimed at the development of the purification process of washing wastewater from electroplating heavy metal ions using a nonhydrolyzable residue peat.*

***Keywords:****non-hydrolyzable residue of peat, sorption, sorbent, static exchange capacity, sewage water, degree of purification, heavy metal*

N.E. ZHURAVSKAYA

**NANOTECHNOLOGY AND SECURITY FROM CONCRETE BIODEGRADABILITY**

*The advances of nanotechnology in construction. Analyzed the harmful effects of building materials and the impact of pollution on human activity. The authors proposed a hypothesis that has been confirmed by the use of a method for protecting concrete from biodegradation.*

***Keywords****: nanotechnology, biological damage, the strength of concrete, indoor climate, life safety.*

М.А. LISINETSKAYA, А.V. LIKHACHEVA

**REPROCESSING OF SPENT PICKLING SOLUTION TO PRODUCE IRONCONTAINING PIGMENT**

*The article presents the results of research aimed at processing of work-pickling solutions to obtain iron pigment masses of different colors. Investigation of their properties has shown that they meet specifications.*

***Keywords:*** *galvanic production, etching, waste pickle liquor, recycling, pigmental substance*

L.YU. BOBROVA

**STATISTICALANALYSISOFEMERGENCYANDDILAPIDATEDHOUSINGASTRAKHANREGION**

*Emergency and the old Fund today, perhaps the most serious problem of the Astrakhan region. The total number of square meters is almost equal to 800 thousand. Unfortunately, in our city still preserved buildings of 1917 , some even later. These buildings today cannot be demolished, nor any restoration. As for the more recent buildings, such as the «Khrushchev», they were presented in the 60th years of the last century. Many have «deteriorated».*

*Today the local authorities are unable to defer these issues to the back burner. The Federal program «Dwelling» is working in the region, but in our opinion, cannot cope... The Astrakhan looking for a way to deal with serious problems. Need investors, but until the result leaves much to be desired.*

*We can assume that if our state focused attention on this issue earlier, we're not reached the critical point.*

*Today the problem is solved, but very slowly. Define the criteria and technical terms of classifying residential premises to the category of dilapidated and emergency housing. The analysis of normative-legal acts, collected and analyzed statistical information about the emergency and the old Fund of the Astrakhan region.*

***Keywords***: *emergency housing, old emergency Fund, Federal targeted program «Housing»program «housing for young families of the Astrakhan region», housing and communal services.*

I. YU. ABLEYEVA, L.D. PLYATSUK

**ASSESSMENT OF ENVIRONMENTAL SAFETY OF AREAS SUBJECT TO DRILLING WASTENEGATIVE INFLUENCE**

*The article considers the ecological situation of areas subject to technogenic load during oil wells drilling and oil production. Key aspects of the negative impact of drilling waste on the environment are summarized. The results of toxicological evaluation of drilling sludge carried out by bioassay are presented. The waste danger degree based on the calculated total hazard index is determined. Ways to improve the environmental safety of oilproducing areas are suggested.*

***Keywords:*** *drilling sludge, bioassay, heavy metals, hazard index, waste utilization.*

V. N. AZAROV, N.P. SADOVNIKOVA, D. P. MAMONTOV

**APPLICATION OF SYSTEMS DYNAMICS MODELING TO ASSESS THE IMPACT OF TRANSPORT AND LANDSCAPING FOR AIR QUALITY**

*The paper presents an approach to modeling the anthropogenic impact in the city. The possibility of using the model to assess the impact of transport and landscaping on the level of air pollution. The results represent practical interest for the development of environmental programs of the city and the choice of methods of managing environmental safety.*

***Keywords:****simulation modeling, air pollution, decision support, system dynamic*

А.I. ANTONOV, О.А. ZHOGOLEVA, V.I. LEDENEV

**THE METHOD OF CALCULATION OF THE ACOUSTIC MODES IN BUILDINGS WITH A CORRIDOR SYSTEM OF PLANNING**

*A new method of calculation of noise propagation in buildings with a corridor system of planning was presented.This method and computer program allows estimating the calculation of the acoustic modes in buildings with a corridors system of planning objectively and developing effective noise control activities.*

***Keywords:*** *the noise mode, the sound field, the corridor system of planning, the noise reduction.*

S.A.AKHREMENKO,D.A.VIKTOROV

**EVALUATION OF THE THERMO TECHNICAL PARAMETERS**

**OF THE BUILDINGS AS THE MOST IMPORTANT ELEMENT OF CREATION**

**OF THE BIOSPHERE COMPATIBLE HOUSING**

*The article describes a method of the survey of buildings and structures in the operational conditions, which ensures the possibility of estimation of heat-insulating properties of the building envelope of any thickness and composition (walls, floors, coatings, etc.) and other heat-engineering characteristics with minimal expenses for instrumentation.*

***Keywords:*** *building envelope, thermo technical characteristics, thermal protection*

G.A. LEBEDINSKAJA

**ON THE TRADITIONAL METHOD OF ACHIEVING ENVIRONMENTAL RELIABILITY SOLUTIONS USED IN TERRITORALNOM PLANNING FOR URBAN AGGLOMERATIONS**

*On the basis of experience of application of ecologically focused methodology of territorial planning, problems and the basic ekologo-town-planning principles of the planning organization of key forms of moving –city agglomerations are considered. The technique of the planning organization of systems of the interconnected moving taking into account ekologo-town-planning conditions is offered.*

***Keywords****: territory organization, city agglomerations, ekologo-town-planning conditions, ecological balance, demographic capacity, sector zoning, natural framework.*