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V.V. ALEKSASHINA

DEINDUSTRIALIZATION... WHAT NEXT?

The article describes the evolution of the deindustrialization of today's Russia, the conclusion about the absolute necessity of the new industrialization of the country. Shows a historical retrospective events privatization of state property. Assesses the socio-economic and political processes, proiskhodyaschihv in the Russian Federation for the period from 1990 to the present. Made forecasts of the economy on the basis of the studied processes.

Keywords: deindustrialization, industrial construction, liberalization, privatization, industrialization

А.Y. KHOLOPTSEV

FORECAST CHANGES IN CLIMATIC NORMS SUMMER TEMPERATURES, SEVASTOPOL GIVEN THE SUBOPTIMAL SET OF FACTORS

The put forward technique of search for factors, the use of which as arguments of the multiple-regression model of changes in average temperatures of the summer season provides the forecast of these characteristics and their climatic normals with the greatest accuracy in advance of 1-10 years, on condition that in the future statistical relationships between them will remain the same. The example of the city of Sevastopol shows, that the obtained forecasts in this case are practically independent of the location of the meteorological station, which data are used as the actual material that gives evidence in favor of their adequacy.

**Keywords:** forecasting, climatic normals, the average temperatures of the summer season, suboptimal sets of factors, Sevastopol, optimization

S.A. KOBELEYA

THE SYSTEM REPRESENTATION OF THE SOCIAL COMPONENT OF ECOLOGICAL SAFETY HOUSING SECTOR OF THE REGION

In the cities, does not lose its relevance problem of shelter. Residential area of the region is a complex dy­namic system. As a quantitative criterion for evaluating environmentally safe condition of the housing sector in the region favor a balance between indicators of the state of its components. With the help of abstract logical analysis in the article proposed a system of performance indicators (indicators private) housing development in the region. The paper presents a calculation of the partial criteria of the social component. The author proposes a method of calculating the environmental safety of the housing sector in the region.

**Keywords:** housing sector, social component, environmental safety

S.A. VOROBYEV, D.Z. KOZLOV

ON THE QUESTION OF APPLICATION OF BIO-INDICATION TO ASSESS THE IMPACT OF AIR EMISSIONS FROM MOBILE SOURCES IN THE GEOGRAPHIC LOCATION OF OREL CITY

The article focuses on the application of methods Bioindication different breeds of urban green space to assess the quality of the urban environment on the example of the city of Orel regions characterized by different levels of human impact, in terms of different directions of airflow can increase the expression of human impact. The main source of pollution at all study sites was selected vehicles. To assess the quality of the environment used the method of calculation of the index of fluctuating asymmetry. The article revealed a direct correlation coefficient of asymmetry of greenery and emissions study sites.

***Keywords:*** biosphere compatibility, urban ecosystems, human impact, bioindication

S.A. KOSHKAREV, Т.А. KISLENKO, Y.Y. RYLTSEV

APPLING DUST SEPARATION APPARATUS IN FILTERING-FLUID BED IN BUILDING CONSTRUCTION AND BUILDING INDUSTRY

There is approach of usage high efficiency ecological technology to prevent and to reduce volumes’ dust ingre­dient’s substances in emissions of pollutions exhausted in the atmosphere in this article. There contained applying dust separation apparatus in filtering-fluid bed in building construction and building industry in this article. It was sug­gested to use queasy-diffusion model for description continues dust separation in filtering-fluid bed apparatus. It was elaborated construction of gas-spread grid for dust separation’s apparatus in those filtering-fluid bed of raw (big) di­mension particles-coms of materials. It was obtained volumes’ of queasy-dijfusion coefficient D and relative concentra-lion of separating particles along filtering-fluid bed of apparatus for different types of raw dispersed particles-coms materials and hydrodynamics’ working regimes.

**Keywords:** dust separation, filtering-fluid bed, emissions of pollutions, dust, an atmosphere, queasy-dijfusion model, gas-spread grid

M.Y. BOTAGOVSKIY, S.Y. PLOTNICOVA, I.A.BARBAROSH

LOW ENERGY RESOURSE SAYING TECHNOLOGIES OF CONSTRUCTION OF BUILDINGS USING NATURALES MATERIALS

*The paper presents the design solutions and construction technology of energy efficient low-rise buildings, involving the use of natural materials such as straw and clay, as well as waste paper and pulp industry. Offers equipment and tools for shaping straw blocks. Stages of the construction of buildings of such blocks. It is shown that the houses built using these technologies are low cost and high environmental performance.*

***Keywords:*** *Biosphere compatibility, resurce saving building technologies, comfortable hous, straw, clay, scutch, using paper, westes of pulp and paper industry, multi-layered enclosing constructions, thermal protection of building*

Y.Y. PLOTNIKOV, M.Y. BOTAGOVSKIY

THE USE OF RESOURCE-SAYING TECHNOLOGY OF INDUSTRIAL WASTE IN THE PREPARATION OF LOW-DENSITY CONCRETE

*Currently, Russia has accumulated millions of tons of industrial waste, which not only occupy vast areas of land, including fertile, but adversely affect the environment. Thanks to innovative technologies, part of the waste, at the same time, can be effectively used in construction, thus reducing the volume of different types of mineral re­sources extracted from the Biosphere. There are resultates of resurce in article, which are support to recomment the number of industrial waste for receiving durable low-dencity concrete using for enclosing construction of building.*

***Keywords:*** *biosphere compatibility, multi-layered enclosing constructions, thermal protection of buildings, monolithic foam concrete, thermal conductivity, activation in a liquid medium, finely dispersed industrial waste*

N.Y. BAKAEVA, D.V. DANILEVICH, I.V. SHISHKINA

EVALUATION OF ACOUSTIC POLLUTION OF THE URBAN ENVIRONMENT (ON THE EXAMPLE OF OREL)

*The estimation of the acoustic pollution of the urban environment from the effects of road traffic flows. Describes the transport, travel, architectural and planning factors acoustic urban pollution. The existing methodology for assessing the sound pressure generated by the flow of vehicles. Analyzed design decision motorway in Orel. Suggestions for environmental reconstruction project solutions highways based on a combination of various protective factors.*

**Keywords:** urban environment, acoustic pollution, motor transport streams, ecological reconstruction, bal­ance ratios

А.А. LUKASH, N.P. LUKUTSOVA

ABOUT THE USE OF WOOD CONTAINING ARTIFICIAL RADIONUC­LIDES, FOR MANUFACTURING CONSTRUCTION MATERIALS

*The possibility of using the contaminated timber for manufacturing edged lumber for use in construction. The analysis of the possibilities of using the contaminated wood in the national economy. A device for removing the contaminated parts of the wood feed mechanism comprising two odnopilnyh machine for trimming sequence for each of the edges and rails for movement parallel to the cut edges of lumber.*

***Keywords:*** *construction, radionuclides, timber, lumber*

V.I. KOLCHUNOV, Е.А. SKOBELEYA, M.V. BORISOV

PROPOSALS TO PARAMETER EVALUATION OF RECREATIONAL AREAS OF BIOSPHERE COMPATIBLE RESIDENTIAL DISTRICTS

*In this paper we propose a new approach to the parameter evaluation of recreational areas providing the implementation of the principles of the biosphere compatible city [1]. The value of the greening areas of urban neighborhoods is proposed to determine on the basis of the achievement of the triple balance components of the urbanized area biotech sphere specific to the existing building and destabilizing influences on the environment. As an example, the results of qualitative analysis of recreational areas for situational scheme of the reconstructed building of a residential district in the city of Orel is given.*

***Keywords:*** *recreational areas, biospherecompatible city, triple balance, environmental security, landscaping area, residential neighborhood*

G.O. KODOLOY, Z.K. PETROVA

PROSPECTS OF APPLICATION OF INNOVATIVE AUTONOMOUS POWER SUPPLY SYSTEMS IN LOW-RISE RESIDENTIAL DEVELOPMENT

*The article is devoted to the problem of applying innovative Autonomous supply systems in low-rise housing development. Introduces a classification of buildings according to their level of energy consumption, adopted by the countries of the EU. Reasonability of application decentralized heating systems preferred the use of cogeneration installations in residential areas, districts, blocks and individual houses of low-rise buildings. Suggests the forma­tion of the life-sustaining Elements of Settlement (ЖЭР) - of and settlements with low-rise live (energy-efficient, re­source-saving and low-waste) buildings with innovative self-contained systems of power supply.*

***Keywords:*** *concept of biosphere compatibility, low-rise tuning, innovative engineering systems, energy effi­ciency, autonomous heat supply, alternative energy sources*