

**S. A. MEHOVICH, A. S. ZAHARCHENKOV. UKRAINE IS IN CONTEXT OF FEATURES OF MODERN DEVELOPMENT OF INDUSTRIAL PRODUCTION OF LEADING WORLD PRODUCERS.....10**

*The features of modern development of industrial production of leading world producers are expounded in the article. In a general view the ways of output of Ukraine are marked from a global crisis. The examples of realization of technological breach leading world producers are resulted.*

**Energy saving**

**S. N. POKALITSYN, A.M. HRENOV, A.V. ROMASHKO. POTENTIAL OF NATURAL GAS ECONOMY REALIED BY INTRPDUCTION SYSTEM OF MONITORING AND TARGETING GAS CHAEGES FOR HEATING HOSPITALS AND SCHOOLS AT CITYLUBOTYN TO THE KHARKOV AREA.....18**

*Research of database about the actual daily values of natural gas charges for building heating in budgetary sphere of city Lubotyn and average daily outward air temperatures showed high power efficiency natural gas charges monitoring and targeting system introduction.*

**A. B. GRIGOROV, V. V. SHPACOVSKY, O. D. ANTONJUK. CATALYTIC INCREASE IN THE EXIT OF LIGHT FRACTIONS OF THE OIL.....24**

*The results of the catalyst using at laboratory distillation of the Kazakhstan and the Ukrainian oil with partially remote petrol fraction are presented in the article. Using of the catalyst allowed to increase a total exit of light fractions for the Kazakhstan oil by 6 % (vol.) and for the Ukrainian oil by 15 % (vol.).*

**A. M. PSHINKO, V. G. SYCHENKO, V. G. KUZNETSOV, D. C. YATSENKO. INCREASING OF POWER CONSUMPTION EFFICIENCY IN UNIVERSITY.....24**

*In this paper the authors selected energy saving measures to improve energy efficiency in university and calculated the effect of measures based on proposed model.*

**A. A. BOBUKH, D. A. KOVALEV. RESEARCH OF OBJECTS CONTROL OF THE CLOSEDSYSTEM CENTRALIZED HEAT-SUPPLY ON THEIR PHYSICAL MODELS.....30**

*The questions research of objects cjntrol of the closed system centralized heat-supply are examined on the physical models of individual thermal point and system of heating.*

**Power engineering**

**Yu.V. ROMASHOV. DURABILITY INDEXES VALIDATION BASED ON CONTINUAL FRACTURE MECHANICS FOR HEAT EXCHANGER TUBES OF STEAM BOILERS SUPERHEATERS.....35**

*Limiting state reach time deterministic dependence on steam pressure obtained by continual fracture mechanics and relative frequency function of steam pressure on-stream random spread are used to estimate of limiting state reach time relative frequency function required for durability indexes validation of steam boilers superheaters heat exchanger tubes. Obtained durability indexes of superheaters heat exchanger tubes are conformed with steam boilers design expertise and shows all known from field experience situation that fracture of heat exchanges tubes is possible before projected service life due to mismatch between design conditions and real-life operating conditions by reason of chloride pollution of heat exchange surface as example.*

## ABSTRACT

### Energy audit

V. I. ABELESHEV. RESEARCH OF SOME HEATING ENGINEERING ASPECTS OF EFFECTIVE DEVICE OF MANSARDS.....41

Work is devoted to research of some heating engineering aspects of effective device of mansards by the analysis of basic problems, tendencies and directions of development of the roofing systems of buildings on a modern stage.

### Alternative energy sources

L. I. KOVALEV, I. L. KOVALEV. SMALL POWER IN BELARUS: CHALLENGES AND DEVELOPMENTWAYS.....64

*The article analyzes the effectiveness and economic feasibility of renewable energy power systems for industrial and utility companies in the Republic of Belarus for example cogeneration of electricity and heat, highlights some features of the country's energy, a detailed analysis of the operation of a number of mini-CHP plants built in the country for eight years. Identified some shortcomings and the positive aspects of this trend in the energy sector of the country.*

Keywords. CHP, rates, gas turbines, energetics.

### Scientific and technical progress and efficiency of production

V. F. MORFALIUK, V. F. KOHAN, A.V. MEL'NIKOV. AUTOMATED FACILITIES OF DIGITAL CONTROL OF CLEANING OF ANILOKSOVIKH OF BILLOWS OF FLEKSOGRAFICHNIKH OF PRINTING-PRESSES BY SOLUTIONS OF WASHINGS OFF.....70

*Described the arrangement of software and hardware means of cleanse substance technological parameters digital controlling grounded on results measurement statistical processing in order to ensure prediction quality of anilox rollers surface detrsion.*

Ju. N. FEDUSHKO, L. N. MIHAILOVA. DIELCOMETER METHOD OF CONTROL OF THE STATE OF BIOLOGICAL OBJECTS.....75

*Conducted analysis of the use of dielectric method in the processes of determination of inductivity of biological objects.*

## ТОВАРИСТВО З ОБМЕЖЕНОЮ ВІДПОВІДАЛЬНІСТЮ «ЕНЕРГОІНВЕСТПРОЕКТ»

НАДАЄ НАСТУПНІ ПОСЛУГИ ПРИ ВИКОНАННІ БУДІВЕЛЬНОЇ ДІЯЛЬНОСТІ ЗГІДНО ЛІЦЕНЗІЇ АВ  
№ 195710, ВИДАНОЇ МІНІСТЕРСТВОМ БУДІВНИЦТВА, АРХІТЕКТУРИ ТА ЖИТЛОВО-  
КОМУНАЛЬНОГО ГОСПОДАРСТВА УКРАЇНИ, НАКАЗ № 53-Л:

### ПРОЕКТНІ РОБОТИ:

- АРХІТЕКТУРНЕ ТА БУДІВЕЛЬНЕ ПРОЕКТУВАННЯ.
- ПРОЕКТУВАННЯ ВНУТРІШНІХ ТА ЗОВНІШНІХ ІНЖЕНЕРНИХ МЕРЕЖ, СИСТЕМ І СПОРУД
- РОЗРОБЛЕННЯ СПЕЦІАЛЬНИХ РОЗДІЛІВ ПРОЕКТІВ.

**ЗВЕДЕННЯ НЕСУЧИХ ТА ОГОРОДЖУЮЧИХ КОНСТРУКЦІЙ БУДІВЕЛЬ І СПОРУД, БУДІВНИЦТВО ТА МОНТАЖ ІНЖЕНЕРНИХ І ТРАНСПОРТНИХ МЕРЕЖ:**

- МОНТАЖ ЗОВНІШНІХ ТА ВНУТРІШНІХ ІНЖЕНЕРНИХ МЕРЕЖ, ПРИЛАДІВ ТА СИСТЕМ.
- ЗАХИСТ КОНСТРУКЦІЙ, УСТАТКУВАННЯ ТА МЕРЕЖ.

**ЗАПРОШУЄМО ДО СПІВПРАЦІ З НАМИ!**

**НАША АДРЕСА:**

вул. Сумська, 17, кв. 11, м. Харків, 61057, Україна,  
тел./факс +38 (057)750-51-96, E-mail: energoinpro@rambler.ru