

ABSTRACTS

Energy saving

E. N. INSHEKOV, O. KOZUB, O. S. DROBAKHA. **MODELS OF OPTIMAL ENERGY RESOURCES CONSUMPTION IN INDUSTRIAL ENTERPRISES WITH THE CONSIDERATION OF ECO-CLIMATIC RESTRICTIONS**.....8

In this paper carry out solving the optimization's tasks of production structure and consumption structure of energy resources for improving organizational and production mechanism of the operation of industrial enterprises and for formulating the practical suggestion on optimize the structure of production, taking into account the complex of economic, energy and environmental factors, including the following features of modern enterprises, as quantitative and qualitative shortcomings of the production structure that cause release of uncompetitive products.

V. M. KOSHELNIK, G. M. SHABANOVA, S. O. KISELEVA. **DETERMINATION OF THERMAL EFFICIENCY OF PRODUCTION OF SILICATE BRICK IS AT CHANGE OF TEMPERATURE CONDITION OF AUTOCLAVE**.....17

The method of determination of thermal efficiency of production of silicate brick is offered, at the change of temperature condition of autoclave. The decline of volume of expense of natural gas is expected at introduction of energysaving technology of silicate brick for the enterprise of silicate wares.

W. F. NAKCODOV, I. V. STETSENKO, Ja. S. BEDERAK. **APPLICATION OF MATHEMATICAL MODELS FOR THE INSTALLATION "STANDARD" IN THE SYSTEMS OF OPERATIONAL CONTROL OF ENERGY EFFICIENCY**.....23

This paper debates the use of the group method of data handling (GMDH) for the application of mathematical models of fuel or electric consumption at industrial plants.

I. A. CHIZHEVSKAJA. **TO RECOMMENDATION REGULATOR IN RELATION TO INTRODUCTION OF PROGRAM OF HAVING A SPECIAL PURPOSE INDEXES (STANDARDS) OF ENERGY EFFICIENCY**.....34

In the article, monitoring of existent legislation is conducted on questions of government control of energy, plenary powers of power rgulyatora in the field of energoeffektivnosti, existent normative-legal providing of realization of policy of energoeffektivnosti.

A. B. GRIGOROV. **COMPLEX PROCESSING OF EXHAUST MOTOR OILS**.....40

A review on modern directions of utilization of exhaust motor oils in Ukraine is presented in the article. The chart of the complex processing of exhaust motor oils, allowing getting valuable raw material for the processes of production of motor and transmission oils, plastic greasing, petroleum and coal coke, travelling and building bitumen's, is offered.

Energy

V.V. KUZMIN, I. G. KIRISOV, S.V. MALININ. **ANALYSIS OF REACTIVE POWER COMPENSATION IN ELECTRIC NETWORKS OF UKRAINE**.....45

The article analyzes the existing compensation of reactive cardinality of, identified the problems that arise when it is compensation for different types of consumers, presents data on the use of reactive power sources, manufactures mye-home industry.

Alternative energy sources

A. A. REDKO, A. I. KOMPAN. **HEAT RECOVERY OF EXHAUST GASES OF INDUSTRIAL FURNACES AND FUEL-USING PROCESS UNITS FOR POWER GENERATION**.....51

Results of numerical studies of the thermodynamic efficiency of heat recovery cycle of power generation using waste energy flue gas from using fuel assemblies and industrial furnaces with temperatures up to 350°C.

S. N. DUDNIKOV, M. M. SHOVKALIUK. **THE ISSUES OF CONSTRUCTION OF SYSTEMS OF POWER SUPPLY OF CONSUMERS OF THE AGROINDUSTRIAL COMPLEX WITH THE USE OF ALTERNATIVE SOURCES**.....56

Main directions in the design of the systems of energy supply from alternative sources, which will increase the efficiency of their functioning.

Scientific and technical progress and efficiency of production

G. G. ZHUN². **RESTORATION OF THERMAL CHARACTERISTICS OF CRYOVESSELS**.....64

The paper is dedicated to study of the process of warming up rejected cryovessels and development of 90-hours-accelerated energy-saving technology of restoration of their thermal characteristics.

Keywords: cryovessel, thermal insulation, optimal vacuum, thermal vacuum degassing, hermeticity.

S. A. GRYAZNOVA. **AN IMPROVEMENT OF METHOD OF HAULING CALCULATION OF TRAINS IS IN TUNNEL**.....68

Influence of the hauling calculation method of trains in a tunnel that unlike earlier the known methods takes into account to heterogeneity of air environment. Non-stationary character of motion of circulations streams is taken into account through the coefficient of friction of air environment. The sizes of the indicated coefficients must be certain for every concrete driving of underground passage. The offered method allows to define backlogs of economy of power resources during the following of electric train on all elements of area in every case.

Keywords: heterogeneity of air environment, resistance to motion, coefficient of friction of air environment.

**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