

**V. V. AFTANIUK, V. M. SPINOV, P. A. IVANOV.** OPTIMIZATION OF HORIZONTAL WATER HEATING SYSTEMS.....11

*A brief description of contemporary designs horizontal water heating systems. The advantages, disadvantages and effectiveness of the horizontal water heating systems in various buildings. The problems to be solved to improve the horizontal water heating systems. Optimized design concept, hydraulic calculation and management of horizontal double-tube hot water heating systems.*

**S. N. GLAGOLEV, V. S. SEVOST'JANOV, T. I. IL'INA, V. I. URAL'SKIY.** MODULE PRINCIPLE OF ORGANIZATION OF TECHNOLOGICAL COMPLEXES FOR PROCESSING OF TECHNOGENIC MATERIALS.....15

*Scientific and technical developments which allowed to create the technological modules for the complex processing of technogenic materials with different fiziko-mechanical descriptions are described in the article.*

**V. I. ABELESHEV.** RESEARCH OF SOME ASPECTS OF INCREASE OF EFFICIENCY OF ENERGY ECONOMY ACTIONS IN DWELLING-HOUSES.....23

*Work is devoted to research of some questions of increase of efficiency of energy economy action in dwelling-houses by the analysis of basic problems, tendencies and directions of their development on a modern stage.*

**M. A. JAREMENKO.** RESEARCH OF INFLUENCE OF PRICE GAZA ON OPTIMUM DISTRIBUTING OF THERMAL LOADINGS BETWEEN THE CENTRALIZED SOURCE OF TEPLOSABZHENIYA AND AUTONOMOUS HOUSINGS ELECTRO-CALDRONS.....30

*Influence of gas cost on the heat demand optimum partition among the central heat station and local electric heating boiler units is investigated.*

**Keywords:** central heating system, optimum control, local electric heating boiler unit.

*Power engineering*

**V. M. OLEYKO, N. E. STRELBITSKA.** POWER POTENTIAL OF UNTRADITIONAL AND RENEWABLE ENERGY SOURCES .....35

*In article the energy potential of areas of Ukraine by definition of the sum of the normalized potential nonconventional and renewable energy sources is investigated. Differences in calculation of energy potential NRES of areas by means of technically-accessible and economically-expedient values of indicators are analyzed.*

*Alternative energy sources*

**Ju. V. KURIS, A. V. RUBAN.** OBOSNOVANIE OF PARAMETERS OF PULSER OF ELEKTRONN-TECHNOLOGICAL METHOD OF RECEIPT OF BIOGAS.....50

*In the article the ground of parameters of pulser is resulted in-use for anaerobe fermentation water organic substratu in metatenku with the purpose of receipt of biogas.*

*Economy*

**O. V. TJUPISHEVA, O. G. CHURJUMOVA.** ANALYSIS OF MARKET DEMAND ON THE SPECIALISTS OF FUEL AND ENERGY COMPLEX.....56

*In articles the analysis of requirement for experts of a fuel and energy complex is carried out, tendencies of development of the enterprises of power and oil and gas area, a condition of preparation of experts in profile high schools, prospects of employment of graduates are defined. It is given the recommendation concerning improvement of preparation and improvement of professional skill of experts on the basis of corporate universities.*

*Scientific and technical progress and efficiency of production*

**P.Y. PRIDUBKOV, I. V. KHOMENKO.** ABOUT THE DIAGRAMS OF LINEAR TRANSFORMER AND HIS CHART OF SUBSTITUTION VECTORIAL AND TOPOGRAPHICAL.....67

*It is shown, that diagrams vectorial and topographical provide the high-quality control of calculation of linear transformer at his planning, accordance of diagrams of transformer vectorial and topographical is set to similar diagrams of the developed chart of substitution of transformer, not containing inductive communications, it is proved, what only the given chart of substitution of transformer corresponds to the electromagnetic processes of linear transformer.*