

ABSTRACT

The thesis is presented in 54 pages. It contains 2 appendixes and bibliography of 6 references. 16 figures and 7 tables are given in the thesis.

The aim of the thesis is to create software for electricity consumption forecasting.

The method of extrapolation, methods of multivariate modeling, methods of information modeling, methods of statistical modeling, the Delphi method, the Pattern method and the combined method of forecasting non-stationary stochastic processes for electricity consumption forecasting are discussed. To create software selected the combined method of forecasting non-stationary stochastic processes, because it is easy to sense, efficient, gives the best approximation to real data.

During the performance thesis analysis of existing methods of forecasting is made, existing method for solving the problem of forecasting electricity consumption is selected, software based on selected mathematical method is developed, the developed software is tested.

Main ideas of the thesis were published in the conference "Applied Mathematics and Computing".

Keywords: combined method, the number of known values of the last implementation, forecasting, implementation, software.