

Abstract

Bachelor's degree project on the theme: «Automation of the process of rectification alkylate» includes an explanatory note Capacity 70 pages, the specification for functional circuits Capacity 6 pages, the specification for the electrical circuits and applications Capacity 10 pages.

Explanatory note contains 7 chapters, appendix and 16 references.

Bachelor's degree project in the analysis the process of rectification alkylate, as the object of automation. The functional diagram for automating this process and is essentially an electrical circuit, remote control, emergency protection and technology block.

In operation heat exchanger, as objects of control. For the same apparatus the mathematical models of static and dynamic modes. With these models, calculations of static characteristics of disturbance and control channels. Done synthesis control system. In the same section, conclusions and recommendations on the use of certain regulators.

In the performance diploma methods were used control theory, mathematical modeling.

The results of theses published in international conferences. The main findings can be used to estimate the parameters of real systems configuration management.

Keywords: heat exchanger, separator, mix, column loop control scheme automation, mathematical model, static characteristics, channel disturbance, channel management, dynamic characteristics , safety, specification of equipment