## Abstract

Bachelor's degree project on the theme: «Automating the process of emulsion copolymerization of butadiene and styrene» includes an explanatory note Capacity 67 pages, the specification for functional circuits Capacity 6 pages, the specification for the electrical circuits and applications Capacity 10 pages.

Explanatory note contains 6 chapters, appendix and 39 references.

Bachelor's degree project in the analysis the process of emulsion copolymerization of butadiene and styrene, 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 reactor, 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: activator, pulp, mix, column loop control scheme automation, mathematical model, static characteristics, channel disturbance, channel management, dynamic characteristics , safety, specification of equipment