# Abstract

Bachelor's graduation thesis work on "Automation of tube furnace for hydrotreatment of petroleum oils" is based on a tubular furnace for hydrotreatment of petroleum oils contains an explanatory note, specification of equipment for functional scheme of automation equipment and data-schematic diagrams remote control electric, emergency protection and technological locks, functional diagram and automation application.

Explanatory note contains 16 figures, 5 tables, 4 applications (2 of which - the specification of equipment) and 8 references.

The analysis of the technological scheme of production in terms of automation and scheme of automation is designed. As the system of mathematical modeling the tubular furnace is considered. The peculiarities of its work, as an object of control are analysed. The static and dynamic characteristics of the system are properly investigated. The synthesis of control system is examined.

The automatic bridge was designed such a technical tool of automation. It was investigated the reliability of the system such as the cost control system. In addition the safety issues at the facility of hydrotreatment of petroleum oils were examined in this particular graduation thesis work.