

ABSTRACT

The thesis project entitled "Automating the rectification plant with floating layer catalyst" volume contains an explanatory note 112 pages 4 sheets and drawings ?? posters.

Explanatory note contains 30 figures, 13 tables, 7 and 30 applications literature. Applications consist of sheets of devices and automation hardware, assembly units tubular furnace to schematic diagrams, the control panel and databases for analysis of accidents.

Sections explanatory note the analysis of the process of production; designed automation system; mathematical model of the tubular furnace; The synthesis of control systems technological object; The question of safety process in the production of single-stage hydro cracking little sulfur distillate fuel; mechanical calculations performed tubular furnace efficiency calculations and automation..

Keywords: gas oil, oil, fuel, automation, tube furnace, facility management, transients, mathematical model, controller, control system, Matlab, MathCAD, safety, economy.