

Abstract

Bachelor's degree project entitled " System automation of the production process of ethylene oxide" contains an explanatory note in volume 88 pages, 2 sheets of drawings A1.

Explanatory Note contains 31 figures, 5 tables, 2 additions and 6 references.

In this project developed a scheme of automation; circuit diagram for remote control electric, emergency protection, technological locks and alarm; mathematical model of the cube distillation column, made studies of this system made the synthesis of a closed control system with PI-regulator; measurement error is calculated mixtures of ethylene feed costs at the entrance to the distillation column. Also in this project considered the safety of the production process.

Keywords: automation, ethylene oxide, rectification, process, circuit automation, control and regulation, alarm and block modeling, project management, transfer function, transient response, safety, specification..