

Abstract

Bachelor's degree project contain the analysis of the technological scheme of production polyvinylacetate in a continuous way as an automation object.

The main technological device is two-step polimerizator reactor with external heat exchanger.

In the diploma project discusses the features of the reactor polimerizator as control object.

In the diploma project for the parts of reactor (1-st stage, 2-nd stage, external refrigerator) developed mathematical models of the static mode. With these models made calculations of static characteristics of disturbance and control channels.

In the diploma project is developed C + + program that can be used in laboratory work at the stands of computer-chip learning system as the control object when modeling the contours of the control and management of microprocessor controllers and microcontrollers.

In the diploma project are developed algorithms and functions that ensure the application of C + + to simulate the process in the reactor- polimerizator.

Also in the diploma project deals with the issue of safety at production polyvinylacetate in a continuous way.

Diploma contains an explanatory note volume 95 pages, two specifications of equipment up 28 pages.

Explanatory note contains 77 pictures, 60 tables, 8 applications (two of which - the specifications of equipment) and 21 literary source.

Keywords: polyvinylacetate, polymers, polymerization, reactor polimerizator, computer-microprocessor system, contour control, object control, software simulator, automation scheme, mathematical model, static characteristics, channel disturbance, channel management, dynamic characteristic, block diagram of the algorithm, safety measures, specification of equipment.