Abstract

AUTOMATION, AUTOMATION SCHEME, TECHNOLOGICAL SCHEME, MATERIAL BALANCE, SOFTWARE, CONTROL.

Explanatory note 89c., 20 fig., 25 tab., 4 appendices, 26 sources.

The project of computer simulation and automation of the granular material production process has been completed.

The paper analyzes the norms of technological regimes and the technological scheme of the process of wet granulation on the example of the production of coated tablets. The characteristics of the technological scheme and features of this production are considered.

A computer calculation of the material balance of the granulation process in the ChemCad environment has been performed.

A computational module has been developed for calculating the optimal settings of the PI controller in the C # .Net Framework.

The proposed process automation scheme. The required control devices are selected.

Conducted economic and organizational calculations of the main technical and economic indicators of this process.

The analysis of all possible dangerous and harmful factors found at the projected facility was carried out; measures aimed at creating healthy and safe working conditions and fire safety were developed.