

ABSTRACT

Explanatory note has 72 p., 8 fig., 20 tables, 4 appendixes, 23 sources.

COMPUTER MODELING AND AUTOMATION OF THE PROCESS OF PRODUCTION OF CLAYDITE SAND, MATERIAL BALANCE, AUTOMATION, MODELING, COMPUTER CALCULATION, SOFTWARE MODULE, CLAYDITE SAND, GLOW SCREEN, CYCLONE

The project of computer calculation of the production of claydite sand.

The aim of the project is to design a scheme for the production of claydite sand, determine the basic parameters, build an automation scheme and create a mathematical model.

The norms of technological regimes are justified, the technological scheme of the production of claydite sand is given in the project.

The calculation of the main design parameters and the verification calculation of the cyclone were performed.

A computational module for the calculation of a cyclone in the Visual Studio environment has been developed.

The economical and organizational calculations of technical and economic indicators of this process were carried out and the expediency of automation was determined on the basis of a comparison of automated and non-automated production.