

Annotation

The diploma project is considered the development of the microprocessor load regulation actuator Corn-crusher.

In the main view of the designation and the unit system of automated electric drive, the equations of motion, standard static load, artificial electro-mechanical characteristics and modes DC motor toka.A also considering the electromechanical characteristics of the motor DC series excitation, the electromechanical characteristics of the induction motor in the electric drive, the electric coordinate regulation and regulation of the DC motor.

The second part of the study were conducted SAU Corn-crusher.It analyzes the consistency load torque of the electric zernodrobniki.Vybφrano most effective regulatory oborudovanie.Issleduetsya changing the load torque on the drive vremeni.MATLAB environment costavlena block diagram and the output characteristics of the asynchronous motor with variable voltage on the stator.

Under health and safety are considered questions about the analysis of the working conditions of the workers in the shop where the Corn-crusher, provisioning Electrical safety during the work in the shop, the calculation is carried out automatically deluge fire suppression systems in zernodrobnom shop.

In the economic part of the calculated capital costs, energy costs and costeffectiveness in the modernization of the electric Corn-crusher.