

## **Annotation**

In this thesis, a control system for asynchronous electric drive in a ball mill is developed to save the frequency-controlled asynchronous electric drives of the mill. In addition, I have developed structural and mathematical models of the asynchronous electric ball mill drive. These developed programs for the synthesis of parameters of the control system of electric ball mill drives. A system of Matlab programs with the determination of motion constants in a ball mill has been developed.

The issues of normalization of the microclimate in the area of work with equipment for the work of labor protection departments are considered, the calculation of the illumination of crushing shops, the analysis of the working conditions of the shop workers, and the calculation of zeroing is made.

Based on his work in the technical and economic department, he calculated capital investments and material costs and calculated economic efficiency.