

## **Annotation**

In the degree project the management system by the two-engine asynchronous electric drive of the pipeline with thyristor tension transformer is developed (the thyristor transformer of tension - the asynchronous engine). Classification, scopes and technological process of operation of tape pipelines is considered. Development of the system of control of the electric drive of the tape pipeline is made in MATLAB, diagrams of transient phenomena, synthesis of parameters, and also qualitative characteristics of transient phenomena are provided.

In the section the health and safety is carried out the analysis of a microclimate of a working zone, dust content of mine air, and also measures for preventing of the fires and potential of explosion are proposed, calculation of fire extinguishing system on a modular section is made.

In the section the economic justification of the draft of the thesis is made the comparative analysis of two alternative systems of the electric drive. The economic assessment of two systems and the subsequent choice of the most suitable system is made.