ABSTRACT

The degree project contains __104__ pages, __25__ figures, __26__ tables, list of used literature that contains __18__ positions, _6_ sheets of graphic part.

The subject of investigation is the process of control the movement of a mine lifting plant using the Maximum Torque per Ampere strategy. The object of research is an analysis of the energy indices of the electromechanical system of automatic control of the mine lifting plant. The purpose of this work is to perform a research influence of control algorithms on the energy efficiency of an electromechanical automation system of a mine lifting plant.

In the course of the research, the methods of the theory of automatic control, the theory of electric drive, theoretical foundations of electrical engineering, the method of selecting lifting machines, ropes, cages for mine lifting plants were used.

MINE LIFTS, AUTOMATIC CONTROL SYSTEM, FIELD ORIENTED CONTROL, MODELING, LOADING DIAGRAM

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Провер.		Dymko S.						
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