ABSTRACT

Explanatory note contains 78 pages, 31 figures, 8 tables, bibliography, consisting of 32 items,3 sheets of the graphic part.

The object of the study isprocesses ofelectromechanical energy conversion in traction electrical drive.

The subject of research is the torque control algorithms for asynchronous traction drive.

In this thesis, a simulation program for the chosen alternating current traction algorithm has been developed. The algorithm of control of a traction drive of an alternating current is investigated. Research of dynamic characteristics AC.

The calculation and implementation of diploma project were provided using the following software packages: MATLAB, Microsoft Office Word, Microsoft Office Visio.

TRACTION AC DRIVE, MOTOR CONTROL ALGORITHM, SIMULATION, DYNAMIC PERFORMANCE.