

THE SUMMARY

The explanatory note contains 105 pages, 51 figures, 27 tables, a list of references 69 items, 6 sheets of graphics.

This master's dissertation provides an analytical review of the literature source of the electromechanical system of trucks, created an analysis of existing electric vehicles and batteries, which are used on trucks, and made a conclusions that at this moment it is more appropriate to use as a heavy motor asynchronous motor.

A vector torque control system for asynchronous electric drive of a truck with improved energy efficiency has been synthesized.

The research is carried out on the basis of the induction motor, the cargo electric car in the made cycle NEDC-15, by means of the MATLAB software. Two vector control algorithms were studied: traditional and energy-saving, when driving in the city and outside the city with a full load of the electric car and without cargo.

VECTOR CONTROL SYSTEM, ASYNCHRONOUS MOTOR, ELECTRIC DRIVE, FLOW CLUTCH, TORQUE, ERROR, INVERTER, REGULATOR, ELECTRIC.

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| Devel. | V. Biliak | | | | Traction electromechanical system of a truck based on an induction motor SUMMARY | L. | | Pages |
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