

SUMMARY

The Master Thesis consists of 128 pages and encloses 35 figures, 50 tables, 52 references.

In the Master Thesis the development of the electromechanical system of a sports electric vehicle was carried out. The developed electromechanical system provides high dynamic performance of a sports electric vehicle. The algorithm for controlling the moment of the SDPM was synthesized and the dynamical characteristics of the synthesized algorithms were studied. The analysis of the algorithm was carried out by means of mathematical modeling in MatLAB.

The Start-up project was performed for market promotion purposes.

Obtained results can be used in development of the electromechanical system with high dynamic system characteristics.

PERMANENT MAGNET SYBCHRONOUS MOTOR, TORQUE CONTROL,
CONTROL ALGORITHM, ELECTRIC VEHICLE, ELECTROMECHANICAL
SYSTEM, START-UP

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