

SUMMARY

The diploma project is executed on 77 pages and contains 29 figures, 2 tables and 3 posters A1.

In this diploma project an analysis of existing electric vehicle drives is performed, a mathematical model of the interconnected electromechanical system is developed, and a synthesis of the control system of a vehicle with an individual wheel drive is carried out. The influence of cross-links on the dynamic and static characteristics of the electric drive is investigated.

Graphs of transient processes and reaction of the system to external perturbation were obtained via mathematical modeling method.

ELECTROCAR, INDIVIDUAL ELECTRIC DRIVE, FREQUENCY CONTROL, MATHEMATICAL MODEL, RESEARCH, DYNAMIC CHARACTERISTICS

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