

SUMMARY

The diploma project comprises: 67 pages, 29 figures, 5 tables and graphical part on 3 pages A1.

This diploma project carried out the development of an emulator of dynamic vehicles was developed on the basis of an induction vector-controlled electric drive.

During the writing of the diploma project, the following tasks were performed: calculation of parameters, development of a mathematical model of forces acting on a vehicle, formulating the concept of the emulator, studying the dynamics of the emulator by methods of mathematical modeling and on an experimental installation. Also were presented algorithms for control of the moment and speed used in the study. The results of experimental studies are described in detail and the main elements of the power unit are calculated.

INDUCTION MOTOR, ELECTRIC VEHICLE, VECTOR CONTROL,
EXPERIMENTAL STUDIES, EMULATOR, TRANSIENT

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