SUMMARY

The diploma project consists of: pages – 78, figures – 22 , tables – 4 and graphical part on pages A1.

In this diploma project was made a calculation and also a selection of electric motor and battery for the electrification of a serial Sport Utility Vehicle. Developed a system of direct flux oriented control. Using a modelling program was conducted a detailed study on the received dynamic and energetic graphics of our electromechanical system and worked out the real cycle of motion.

ASYNCHRONOUS MOTOR, ELECTRIC VEHICLE, VECTOR CONTROL, OBSERVER,DYNAMICAL PERFORMANCE, ENERGY PERFORMANCE, SIMULATION, TRANSIENTS