

SUMMARY

The diploma project comprises: 60 pages, 15 figures, 5 tables, 1 specification and the graphical part on 3 pages A1.

In this diploma project the algorithm of vector control of moment for synchronous motor for electric motorcycle is presented. The investigated algorithm provides asymptotic torque tracking.

The energy efficiency indicators, which were received by the method of mathematical modeling, provide the torque tracking which correspond to the trajectory of the vehicle with significant accelerations.

SYNCHRONOUS MOTOR, ELECTRIC MOTORCYCLE, FIELD ORIENTED CONTROL, SYNTHESIS OF ALGORITHM CONTROL, DYNAMIC CHARACTERISTICS.

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