

ABSTRACT

This master's thesis consists of an explanatory note in the volume of 132 pages, the number of figures - 46, tables - 27. In this work 74 sources were used.

The object of research of a master's thesis are the processes of control and estimation of coordinates in self-driving vector-controlled induction motor.

The subject of the study is a sensorless vector control system of an asynchronous electric motor with an adaptive observer of speed and flux linkage of motor.

The high-quality system of a sensorless vector control of traction induction motor of self-driving electric vehicle have been constructed and researched due to the use of the advanced adaptive velocity observer and the motor resistances estimator.

INDUCTION MOTOR, VECTOR CONTROL, SPEED OBSERVER, ELECTRIC VEHICLE, RESISTANCE ESTIMATOR.

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