

SUMMARY

The diploma project contains pages – 79, figures – 42, tables – 3 and graphic part on 3 A1 sheets.

In thesis project designs of a sensorless permanent magnet synchronous motor speed field-oriented control systems based on an estimators and Luendberg observers were made.

Mathematical models in stator and rotor reference frame of SPMSM and IPMSM were made and their structural schemes were designed.

Efficiency of designed systems was checked by method of mathematical modeling. Conclusions about practical realization of designed systems were made.

PERMANENT MAGNET SYNCHRONOUS MOTOR, FIELD ORIENTED CONTROL, ESTIMATOR, OBSERVER, SYNTHESIS, MATHEMATICAL MODELING.

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ЗМН.	Sheet	№ of document	Signature	Date	<i>Sensorless PMSM speed control systems</i> <i>Summary</i>			L.	Page	Pages
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