

## SUMMARY

The graduation work contains 66 pages; 25 drawings; 5 tables; 3 pages of charts.

In the graduation work completed calculation the electric vehicle drive. Proposed to use two permanent synchronous electric motors with vector control. This made it possible to realize a faster car start by the start-up torque, and also more stringent dynamic performance.

In accordance to the output data the motor and battery were chosen, designed circuit diagram of the power circuit, composed of a block diagram of an automatic control system. The study of dynamic modes of control system was carried out by means of modeling in a computer in Simulink. Developed measures to ensure occupational safety during operation.

ELECROMOBILE, TRACTION ELECTRICAL DRIVE, PERMANENT  
MAGNET SYNCHRONOUS MOTOR, VECTOR CONTROL, SYNTHESIS,  
MODELING, TRANSIENT PROCESSES, MATLAB

					<i>6.050702.2102.006.BW</i>					
Изм.	ЛистЛ	ПІБ	Підпис	Дата	<i>System of vector-controlled electric vehicle based on PMSM</i>  <i>Summary</i>			Літ.	Лист	Листів
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