

ABSTRACT

The diploma project includes 100 pages, 8 main parts, 40 drawings, 9 tables, 34 sources of used literature and 6 A4 schemes.

The subject of research in this diploma project is an electric cargo bicycle with permanent magnet synchronous motor. The purpose of this diploma project is the development of an electromechanical system of the mobile electric bicycle, which operates in urban conditions, as well as selection of the main elements of electric drive for the mechanism. We did research of the system dynamics during movement and braking of the loaded mechanism.

Calculation and realization of this diploma project was performed in the following programs: MATLAB R2015a, Microsoft Office Word 2010, Microsoft Office Visio 2013.

PERMANENT MAGNET SYNCHRONOUS MOTOR, DYNAMIC MODES INVESTIGATION, ELECTRIC CYCLES, CONTROLLER, TRANSITION PROCESS

					141.4117.022.МД						
Зм.	<i>Арк.</i>	№ Докум.	Підпис	Дата	Автоматизований електропривод вантажного електровелосипеду			Літ.	Аркуш	Аркушів	
Розробив		Тригуб А.О.								5	102
Перевірів		Пушкар М.В.									
Н. Контр.											
Затв.											
					НТУУ «КПІ ім. І.Сікорського», ФЕА, гр..ЕП-82мп						