

## SUMMARY

The diploma project is executed on 88 pages and contains 33 figures and 7 tables and 3 posters A1 format.

The main purpose of the diploma project is the automation of the electric cableway by means of designing a given road and choosing the optimal controlled asynchronous electric drive for it.

The following main objectives were decided in execution of this diploma project: design of cableway features and composed parts of cableway, working modes, analysis of modern existing systems, the formation of the necessary requirements for electric drive and for control system, validation and selection of the electromechanical system, the selection and calculation of the power circuit elements for the electromechanical system, the development of a mathematical model of the chosen system and then modeling it in the environment MATLAB Simulink, research of dynamic and static operating modes at different moments of stress.

The implementation and calculation of the diploma project were provided by means of software: Microsoft Office Word 2010, MathCAD 2015, MATLAB R2009b, Microsoft Office Visio 2010.

CABLEWAY, CHAIR LIFT, ELECTRIC DRIVE, ASYNCHRONOUS MOTORS, FREQUENCY CONVERTERS, REGULATORS, DESIGN OF THE ELECTRICAL PRINCIPLE, MODELING.

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Devel.		Rudniev D. V.			<i>Electromechanical system of a cableway</i>	L.	Page	Pages
Checked		Pechenik M. V.					7	88
N. Contr.						NTUU «Igor Sikorsky Kyiv Polytechnic Institute», FEA		
Approved		S. Peresada						