

SUMMARY

The diploma project comprises: 69 pages, 43 figures, 10 tables and graphical part on 2 pages A1 and on 1 page A2.

The purpose of the bachelor work is to use the vector control system of the asynchronous motor to improve static and dynamic characteristics by introducing a frequency converter into the system.

The object of the study is an asynchronous motor with a short-circuit rotor, which is used as an electric crusher.

The dynamic characteristics of the electromechanical installation, were investigated by mathematical modeling using the MATLAB SIMULINK software environment. The control system synthesis was performed using the conversion column method. The program for the controller is written in the CODESYS software environment.

INDUCTION MOTOR, ELECTRICDRIVE, FLUX ORIENTED CONTROL,
MATHEMATICAL MODELING, SYNTHESIS, TRANSIENTS, HAMMER
CRUSHER, AUGER, FREQUENCY CONVERTER

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<i>N. Contr.</i>	<i>V. Teryaev</i>					<i>NTUU «Igor Sikorsky Kyiv Polytechnic Institute», FEA</i>		
<i>Approved</i>	<i>S. Peresada</i>							

