

## ABSTRACT

The MSc thesis contains 122 pages, 54 figures, 6 letters of the graphic part and 1 application.

The purpose of the master's work is the development of an automated electric drive of a machine with numerical control, checking its work in Simulink and Siemens Sinutrain and creating guidelines for working with Siemens Sinutrain software. The object of the study of master's work is the software Siemens Sinutrain, the study of its capabilities for preparing students to work with a real machine with numerical program control. The subject of study is an automated electric lathe with numerical control. The work systematized knowledge of the functional and technical capabilities of the Siemens Sinutrain software. A study of the operation of an automated electric drive of a lathe with numerical control in the software Siemens Sinutrain and Simulink. The parameters of the equivalent circuit of an induction motor, which is used in the machine, are determined.

AUTOMATED ELECTRIC DRIVE, ASYNCHRONOUS MOTOR,  
SOFTWARE SIEMENS SINUTRAIN, SIEMENS SINUMERIK, MACHINE  
WITH NUMBERING SOFTWARE, MODELING METAL PROCESSING  
CHAPTERS, MATHEMATICAL MODEL

Змн.	Лист	№ докум.	Підпис	Дата						
					Автоматизований електропривод металообробного станка та моделювання його роботи в Siemens Sinutrain Реферат					
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