

## SUMMERY

The degree project is 63 pages and contains 18 figures, 5 tables, 3 graphic sheet, 2 appendixes, 15 references.

The project aim is design of vector-controlled asynchronous electrical drive of trolley bridge crane moving mechanism.

In the project are used the theory of electrical drive, output feedback control, second Lyapunov method and simulation.

Designed automated asynchronous electrical drive with field-oriented control, which provides for trolley bridge crane moving mechanism improved dynamic and static properties compared with well-known electrical drive systems based on wound-rotor induction motor.

INDUCTION MOTOR, VECTOR CONTROL SYSTEM, ELECTRICAL DRIVE,  
BRIDGE CRANE, FREQUENCY CONVERTER, COORDINATE  
TRANSFORMATION, MOVING MECHANISM, LOAD TORQUE, SIMULATION.

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Изм.	ЛистЛ	№ докум.№	Підпис	Дата	Векторно-керований асинхронний електропривод механізму переміщення мостового крану			Літ.	Лист	Листів
Розробив	Чижов М.О.							7	63	
Перевірив	Бовкунович В.С.									
Т.контр										
Н. Контр. Н.	Приймак Б.І.									
Затверд.	Пересада С.М.				НТУУ"КПІ", ФЕА, гр. ЕП-21					