

## SUMMERY

Diploma project contains: 126 pages; 18 figures; 28 tables; 6 graphic sheets; 46 references.

In this master degree dissertation a research on conveyor transport system with vector-oriented controlled induction motor was carried out. The researched algorithm of vector-oriented control over induction motor in given electro-mechanical system provides reliable results following given speed trajectory, which has been proven by mathematical modulation. Energetic characteristics of resulting electromechanical system were researched and appropriate conclusions about possibilities of usage of such system, and its efficiency, were given. Mathematical modulation of an algorithm of indirect vector-oriented control, over induction motor in transport conveyor system, with optimization by maximal torque-ampere correlation was carried out. During mathematical modulation use of vector-oriented control of induction motor in belt conveyors expediency was proven.

CONVEYOR, INDUCTION MOTOR, VECTOR-ORIENTED CONTROL, MTPA ALGORITHM, ENERGETIC EFFICIENCY, TRANSPORT SYSTEM, SYNTHESIS, RESEARCH, MODELLING, MAGNETISATION CURVE.

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