SUMMARY

The diploma project is executed in 95 pages and contains 31 figures, 3 tables, 2 apps and 4 graphics application sheet.

The task of diploma project is analysis of the design, development, research electric suspended conveyor chain.

Based on the analysis of requirements for electric as the most promising adopted a system of "frequency converter - induction motor".

During implementation of diploma project was made traction chain conveyor calculation suspension, calculation of the chosen engine, calculation of the power circuit of electric drive and choice of frequency converter. As a result, the model of electromechanical system was developed and research of dynamic modes of the conveyor was executed.

HANGING CHAIN CONVEYORS, INDUCTION MOTORS, MATHEMATICAL MODEL, FREQUENCY CONVERTERS, FREQUENCY CONTROL SYSTEM, PROGRAMMABLE MICROCONTROLLER, RECTIFIER, INVERTER