

SUMMARY

The diplomas project includes: pages – 103 , pictures – 46 , applications – and graphic part on 6 sheets. The structure the master’s degree work includes the following sections:

1. Analytical Review
2. Nonlinear static characteristics approximation of ventilation installation based on artificial neural networks.
3. Synthesis of the ventilation installation efficiency regulator.
4. Investigation of the electromechanical system of automatic ventilation system control by the mathematical modeling method.
5. Development of a startup project.

Objective: Development of the system of automatic ventilation installation control with approximated nonlinear static characteristics based on artificial neural networks.

During the implementation of the diploma project, a method for designing and training the neural network, a model of the engine-ventilator system with pressure estimators and the efficiency was developed, the synthesis of the productivity regulator was performed.

FAN, ENERGY EFFICIENCY, PRODUCTIVITY, PRESSURE, EFFICIENCY, NEURAL NETWORK, EVALUATOR, MATHEMATICAL MODEL, STABILIZATION SYSTEM, APPROXIMATION, FAMILY OF STATIC CHARACTERISTICS.

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	Letter	№ of doc.	Sign.	Date				
Devel.	B. Fomin				Automation of the ventilation system with increased energy efficiency <i>Summary</i>	L.	Sheet	Letters
Checked	S.Buryan						7	103
N. Contr.						<i>NTUU«KPI», FEA, EP-61m</i>		
Approved.	S. Peresada							