

SUMMARY

The diploma project comprises: 84 pages, 26 figures, 3 tables, 1 appendix, 1 specification and the graphical part on 3 pages A1.

The objectives of this project are the development and practical implementation of electromechanical system of temperature stabilization based on microcontroller, and parameters determination for the mathematical model of a control object.

The results obtained can be used by students for designing and constructing the same system, and for further studying especially microcontrollers settings.

The graphical part includes: functional and schematic circuit diagrams of the object under studying, block diagrams of the electromechanical temperature control system, graphs of transients obtained by mathematical simulation and experimental testing.

Calculation and realization of the course project was carried out by using the following programs: *MATLABR2009b*, *Microsoft Office Word 2007*, *Microsoft Office Visio +2010*, *Keil uVision Software*.

MICROCONTROLLER, SYSTEM OF STABILIZATION TEMPERATURE,
RELAY CONTROLLER, PI, AUTOMATIC CONTROL SYSTEM

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Devel.	G. Kuznetsov				<i>Electromechanical system of temperature stabilization based on microcontroller Summary</i>	L.	Page	Pages
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