ABSTRACT

The Master dissertation « The control system polymer extrusion process in normal operation mode» consists from 149 p., 54 illustrations, 6 table, 28 sources in the list of references.

The dissertation purpose - creation and research of an adaptive control system by process extrusion on the basis of mathematical model of process.

Research reception - imitating modelling of process extrusion in the environment of program Matlab; on the basis of the received curves the analysis of quality of functioning of operating algorithms.

The recursive method of the least squares, algorithm Haglund, projective algorithms for an estimation of parametres of model is investigated. The shown expediency or inexpediency of application of each of them.

Results Master works can be used at creation of control systems warmly - and processes of different areas of the industry for which essential properties behind co-ordinates and influence of indignations.

ADAPTIVE CONTROL, ADAPTIVE SYSTEM, EXTRUDER, ALGORITHM, THE REGULATOR, PLASTICS.