

ABSTRACT

Master's graduate work consists of 115 pages, 40 figures, 36 tables, 19 sources

The object of the study is the plasticizer production process based on polyethylene terephthalate conversion products.

The subject of the study is supervisory control and data acquisition system for the plasticizer production process based on polyethylene terephthalate conversion products

The aim of this work is creation of a system for monitoring and controlling the process of obtaining plasticizer based on PET conversion products

The result of this work is a SCADA-system, which contains control and management means of the plasticizer production technological process, which allows the dispatcher to perform process control tasks.

Relevance of work. The decomposition period of plasticizers is more than 300 years, while global production is growing exponentially. This is why the plasticizers processing technology with a control system is relevant.

The practical significance of the results. The SCADA-system can be used to control the process, to study the influence of parameters at PET processing enterprises.

Approbation of the dissertation results. The key points of the master's thesis were published at the Second Scientific and Practical Internet Conference of students, graduate students and young scientists " MODERN COMPUTER SYSTEMS AND NETWORKS IN MANAGEMENT " 2019 and VII International scientific and practical conference "Computer modeling in chemistry and technology–KMXT-2019".

Publications. According to the results of the master's thesis, three articles were published in the collections of the international conferences papers

CONTROL, PLASTICIZER, SCADA-SYSTEM, AUTOMATION TECHNOLOGY, POLYETHYLENE TEREPHTHALAT