FULL TEXT IN RUSSIAN
(http://ics.khstu.ru/media/2018/N58_05.pdf)

Informatika i sistemy upravleniya. – 2018. – No. 4(58). – P. 46-51.

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MODELING OF MASS-TRANSFER TECHNOLOGICAL PROCESS FOR UNKNOWN TIME OF OUTPUT VARIABLE MEASUREMENTS

Considered is the problem of estimating the parameters of a model, that predicts the quality of mass-transfer technological process output, in the conditions of unknown time of the output variable measurement. An estimation procedure is proposed, that minimizes the sum of the squares of the «residual errors». The «residual errors» are understood as the Euclidean distance from the output variable measurement result to the set of values accepted by the model output within the corresponding time interval. It is shown that the proposed approach improves the accuracy of the predictive model.
Keywords: predictive model, unknown measurement time, measure of quality, mass-transfer process, identification.

DOI:10.22250/isu.2018.58.46-51

For citation:
Klimchenko V.V., Samotylova S.A. MODELING OF MASS-TRANSFER TECHNOLOGICAL PROCESS FOR UNKNOWN TIME OF OUTPUT VARIABLE MEASUREMENTS // Informatika i sistemy upravleniya. – 2018. – No. 4(58). – P. 46-51.