FULL TEXT IN RUSSIAN
(http://ics.khstu.ru/media/2019/N62_09.pdf)

Informatika i sistemy upravleniya. – 2019. – No. 4(62). – P. 92-100.

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INFLUENCE OF SELF-TUNING LOOP PARAMETERS OF AN ISOMORPHIC DYNAMIC MODEL ON THE DISCERNABILITY OF DEFECTS IN CONTINUOUS ICS

The algorithm of searching for single parametric defects in continuous dynamic objects based on customizable isomorphic models built on recursive Laguerre filters is considered. The influence of the gain of the self-tuning loop of the diagnostic model and the type of input signal on the results of diagnostics is researched. All experiments and modeling were carried out with the use of the specialized software package created in Scilab / Xcos.
Keywords: parametric defect, ICS, Laguerre filter, isomorphic model, object of diagnostics, diagnostic feature.

DOI: 10.22250/isu.2019.62.92-100

For citation:
Bloschinskiy V.D., Shalobanov S.V. INFLUENCE OF SELF-TUNING LOOP PARAMETERS OF AN ISOMORPHIC DYNAMIC MODEL ON THE DISCERNABILITY OF DEFECTS IN CONTINUOUS ICS // Informatika i sistemy upravleniya. – 2019. – No. 4(62). – P. 92-100.