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ASPECTS OF TECHNOLOGICAL OBJECTS EMULATION AT A FUNCTIONAL TESTING OF ELECTROMECHANICAL SYSTEMS

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The approaches to emulation of technological objects at testing of electromechanical systems are considered. Object functions can be implemented based on hardware-in-the loop simulation in different configurations, depending on the test tasks. The emulation is based on discrete-time mathematical models of objects that are usually obtained using continuous prototypes. It is emphasized the obligatory necessity of models testing for stability. The importance of taking into account the inertia of influence on the tested electromechanical system is noted. On the example of a vibration machine, the consideration was given to the dynamic properties of the mechanical load creation in the process of emulation of a technological object. References 9, figures 4.

Key words: electromechanical system, technological object, emulation, analysis.

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