DOI: <https://doi.org/10.15407/techned2018.05 . 104>

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

Journal	Tekhnichna elektrodynamika
Publisher	Institute of Electrodynamics National Academy of Science of Ukraine
ISSN	1607-7970 (print), 2218-1903 (online)
Issue	No 5, 2018 (September/October)
Pages	104 – 107

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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.

Received: 05.03.2018

Accepted: 23.03.2018

Published: 16.08.2018

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