Assessment of the Feasibility of the Developed Technologies for Complex Technical Systems

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key words

complex technical systems, weapons, military and special equipment, scientific and technical reserve, technologies, simulation modeling

We have researched methodological approaches to assessing the feasibility of the technologies being developed in the interests of creating promising technical systems. We consider the use of simulation modeling to be the most progressive. Simulation models and simulation apparatus should be reliable, adaptive, allowing easy transition to different technical objects. The analysis of domestic developments in the field of simulation modeling has shown the presence of highly sophisticated models of the functioning of samples of special equipment. Expensive simulation and prototyping stands are used to work with them. However, due to the specifics of the simulated processes and objects, these tools are limited in their ability to reproduce the dynamics of the functioning of significantly different samples of WMSE. Systematic research is needed, the main results of which should be structural and functional schemes of integration and integrated application of models and modeling complexes, mathematical methods and information technologies for modeling the processes of application of modern and promising models of military and special equipment.

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