

RESEARCH THE SIMULATION MODEL OF A VIRTUAL COMMUNICATION NETWORK THAT CONSTITUTES

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ANNOTATION

The communication systems are the sum of the various information processing, transmission, reception and management systems. The main function of communication systems is to deliver data to the specified address, ensuring the installed quality indicators.

Key words: processing, transmission, reception and management systems

At present, it is of great importance to improve the quality of training of specialists. It should be said that specialists of future higher educational institutions should apply their concepts and concepts of professional philosophy in the solution of practical issues, see and apply them for the intended purpose, as well as acquire new knowledge. The communication systems are the sum of the various information processing, transmission, reception and management systems. The main function of communication systems is to deliver data to the specified address, ensuring the installed quality indicators. In order to solve this task, manipulation methods of signal processing, noise-proof codes, protocols of data transmission and legitimization, as well as management systems are used. The role of communication systems and modeling and simulation processes in their design is paramount. In these processes, the optimal physical and functional structures of communication systems are determined.

Modeling is a process that involves the creation of a model, that is, the of an object that replaces the object of research, in order to obtain information about this object by conducting experiments with the model. The Model is an artificially created object for the purpose of storing and editing information, reflecting the properties, relations and properties of the initial object, its position and functions. Obyekt models are systems that are simpler in relation to the objects under study. They have a clear structure and interdependence of components. This will provide a

detailed analysis of their attitude to certain conditions and factors. Thus, modeling is the process of analyzing complex objects and systems by creating simplified models. Models are subject to a number of mandatory requirements: it must be adequate to the object, that is, it must correspond to it in terms of its properties; it must be complete - using the appropriate methods, it is possible through the model to study both the object itself and its behavior under given conditions.

Communication systems and it so niche and multi-channel. Short and wide-brimmed camels. Wireless, mobile and satellite communication channels. Focused wireless channel. Network modeling and Modeling Management.

It is noted that simulation is a method of computer simulation due to the development of Information Technology and this has led to the emergence of this type of computer simulation. In the description, attention is also paid to the experimental nature of The Imitation, the method of simulation of the study is used (experiment with the model is conducted). Simulation plays an important role not only in modeling, but also in conducting experiments, but also in planning on the model. However, this definition does not specify what the simulation model itself is. Let's answer the question, What is the essence of simulation modeling? true system; simulation is a computer-oriented computing experience. logical-or logical-mathematical models that characterize the process under study.

A distinctive feature of simulation modeling is that the simulation model allows you to repeat simulated objects:

- with the preservation of behavioral characteristics (the sequence of time-sharing of events that occur in the system), i.e., with the preservation of behavioral characteristics. dynamics of interaction.
- static description of the system, this is a description of its structure in essence.

When developing a simulation model, it is necessary to apply a systematic analysis of the simulated processes.

* functional model

states are a collection of state variables, each combination of which characterizes a certain state. Therefore, it is possible to simulate the transition of the system from one state to another by changing the values of these variables. Thus, the simulation is an image dynamic behavior by transferring the system from one position to another according to certain rules. Changes in this state can occur at permanent or separate times. Simulation modeling-dynamic reflection of changes in the state of the system over time. In simulation modeling, the logical structure of the real system is reflected in the model, and it is also simulated. dynamics of interaction of subsystems in a simulated system.

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