STUDYING OF IMITATING MODEL OF THE PUPIL BY METHOD OF STATISTICAL TESTS

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Absract. The mathematical and computer models of training process is considered in article. This models takes into account that: 1) during training the amount of weak (poor) pupil's knowledge increases, and part of weak knowledge transforms into stronger (solid) knowledge which are forgotten significantly more slowly; 2) if the difference between the pupil's knowledge and the teacher's requirements grows, then the efforts made by the pupil at first increases, reaches a maximum, and then decreases; 3) at increase in speed of the teacher's statement of new material the transmission coefficient of the «teacher–pupil» channel at first is equal 1, and then smoothly decreases to 0. The computer program is offered which allows to study the imitating model of the pupil by method of statistical tests, a series of computing experiments is carried out, dependence of the training results on information transfer speed from the teacher to the pupil is analyzed. It is shown that at a certain speed of the training material transfer initially uniform set of pupils' breaks up to group of the pupils who have acquired the training material, and group of pupils which haven't acquired it.

Keywords: theory of training; imitating modeling; didactic system; statistical modeling; training; teacher; pupil.

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