
On computer testing in the course of theoretical mechanics

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The article substantiates a necessity of the computer testing of students both in general and on a specific topic of the theoretical mechanics in particular. We present a testing methodology that allows objective assessing knowledge and skills of a students' group for a short time. Typical tasks that can be suggested for computer testing on the topic named "The equilibrium of absolutely solid bodies under action of the forces which action lines are situated in the same plane" are given. Tasks are designed in such a way that allow you to check students' knowledge at the level of definitions and primary concepts, as well as at the level of the ability to apply this knowledge in dealing with more complex issues. An example of the testing result protocol generated by the program for a student from a short course group is demonstrated. The materials of the protocol are decoded.

Keywords: testing, the planar statics, force projection, algebraic force moment, connection response.

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