

«MECHANICS» – A NEW INTERNET TUTOR

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Summary Website "Mechanics" (URL: www.emomi.com) -is an attempt of creation of capacious educational resource in Internet on theoretical mechanics, which one has the purpose to help to learn mechanics, to make it by more attractive for students. The Site is intended for students and educators.

In teaching theoretical mechanics there is quite often a gap between learning theoretical models by a student and comprehension of a possibility of their practical use. To help learning Mechanics, to show how abstract models work in engineering tasks, to make Mechanics more attractive for students are the basic ideas which were incorporated in the concept of the website "Mechanics" (URL: www.emomi.com).

The history of engineering knows many cases when mistakes have resulted in serious consequences. The analysis of such incidents from the point of view of mechanics happens rather instructive. The site pages <Situations> and <Practice-theory> are devoted to such analysis.

In sections <Training>, <Crossword and Tests> a trainee can get an opportunity of an on-line control of skills on Mechanics.

In Download it is possible to find an educational and methodical literature on Mechanics. Good help to the student in studying this discipline, and to the educator in organizing of classes can be rendered with applets-demonstrations of various mechanical processes.

One can expand the outlook, having visited pages <History of engineering> and <News of engineering>.

The architecture of the site allows participate in its development. Each visitor can offer on the page <Our references> the qualified materials or references to Internet-resources which do not breaking the concept of the site.

Professors, experts and students can take part in the discussion of problems of Mechanics and Education on page <Forum>.

The site is already rather extensive and is having been replenished regularly. In <News> it is easy to keep up the occurrence of new materials and to receive the access to them. To be guided on a site one can use the detailed <Site map>.

The realization of <Contests> on the Mechanics for the students of all rates is planning in the long term period. The professors can find for their work examples of the tasks of a number of contests on Theoretical Mechanics.

Not only the students, but also young educators will find useful materials for their work. Each visitor can leave records in the <Guest book>, and in case of the necessity to establish <Contacts> with the authors.

The biographies of great scientists and inventors, crosswords, literature, bibliography, abstracts, demonstration programs on Mechanics and others can be found on the site «Mechanics». The project gives new opportunities for a distant increase of the level of knowledge on Engineering Mechanics. An opportunity of opening of a new heading <Improvement of professional skills of engineers> is being considered.

The site «Mechanics» has been opened for the visitors since July, 2003, and is continuing to be developed. Each month we fix thousands visitors from many countries in the world. Unfortunately, there is only the Russian version of the Site now. We believe, that the English version of a site would render the help in studying of Mechanics of tens thousand students annually, allow distant raise of the qualification of the future engineers and beginner educators from many countries of the world. Experts could share their experience in teaching of Theoretical /Engineering Mechanics.