**Зайцева С.В.**

**NANOTECHNOLOGY IN ENGINEERING**

Nano production engineering – area of applied science and the technics, deal with installations a size less than 100 nanometrov. Basic research of the phenomena occur in structures with sizes less than 100 nanometers, g rise to development of new field of knowledge who, obviously, in the foreseeable future will make revolutionary changes in production engineering of the XXI-st century.

Recently всё the big urgency in engineering industry are g by nano production engineering. Nano production engineering are always appl in instrument making where pinpoint accuracy of machining, and also where gabarits of details had very great value are required very much. The less cabarets of details, the smaller gabarits will be ha, for example, by the measuring tool consist of g details, and, accordingly, by this tool will conveniently measure a detail. But here still there are such moment that the metal-cutting tool which processed such details there will be even less details, for example, a drill or a cutter. Therefore in this case nanoproduction engineering are still pass round to metal-cutting tools.

Very great value in engineering industry had that fact that on a size of a detail depended and the weight are more its, especially it are important in electronics, a robotics and space technics. At factories happened you will see as collected such huge mechanisms as reactors or the autoclaves, weigh tens tons, and it demanded the big expenses for installation and transportation.

And by means of nano production engineering these problems can be solv, the question will consist only in, whether the same reactor could, for example, but reduc by nano production engineering to produce as much energy as what were before and weighing tens tons. Here all are possible, for example, if are us more strong materials, more exact calculation and intuition. It are possible to reduce all to any size the main thing are to possess such knowledge by means of which it are possible to make all it.

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