

A.G. Mamalis, A.I. Grabchenko, V.A. Fedorovich, D.V. Romashov and D.O. Fedorenko

Principles of 3D modelling of the production and application of diamond composite materials

ABSTRACT. Grinding is a common method for high-precision machining of machine parts. This article describes problems that arise during the operation of diamond abrasive tools, and discusses the results of simulation of the grinding process in the modes of high-speed processing and the natural self-sharpening of the tool.

Nanotechnology Perceptions **8** (2012) 132–138

Nonsubscribers: [purchase individual article](#)