

INCREASE OF STABILITY OF TECHNOLOGICAL SYSTEMS AT PROCESSING OF DETAILS AIRCRAFTS ENGINES

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The reasons of occurrence and development of self-oscillations are considered at processing by cutting. The mathematical model of self-oscillatory process is offered at processing of deep apertures which has allowed investigating influence of various factors on intensity of vibrations and stability of system. Taking into account results of theoretical researches designs of boring tools with the raised stability to vibrations have been developed. Experimental researches have confirmed adequacy of mathematical model and have allowed planning ways of increase of stability, quality and productivity of processing.

Self-oscillations, mathematical model, machine, tool, detail, processing by cutting, boring tools

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