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Title

Technologies of gear wheels fabrication by plastic deformation

Authors

Bostan Ion, Dulgheru Valeriu, Trifan N

Institution

Technical University of Moldova

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Description

The invention relates to the workpiece surface strengthening by plastic deformation. The process for knurling the bevel wheel teeth with strengthening of their surface is carried out by several taper rollers of plastic deformation. Strengthening of the teeth surface is carried out by means of alternating microdisplacements. Novelty consists in that the plastic deformation of the bevel wheel teeth takes place under the simultaneous action of ultrasounds and high-voltage currents.