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Deform 3D and Taguchi Techniques for Investigating Cutting Force for AISI 1030 Steel

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Abstract

The current work focuses on optimizing cutting force and tool wear in the turning process of AISI 1030 steel using carbide cutting tool inserts. The three input machining parameters of spindle speed, feed rate, and back rake angle are considered. The AISI 1030 steel turning operation experiments are performed using DOE in a Taguchi series matrix method. This



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