

One scheme of electrochemical machining of metals by a curvilinear electrode tool

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Abstract

The nonlinear plane problem of the evolution of the shape of the metal surface (anode) during electrochemical machining by a curvilinear cathode of symmetric shape is solved. A condition is obtained which allows one to determine the position of the point of transition from the zone of anodic metal dissolution to the region in which machining stops. © 2010 Springer Science+Business Media, Inc.

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Keywords

Electrochemical metal machining, Hydrodynamic analogy, Ideal process