

عنوان مقاله:

Flow formability simulation of high strength steels, investigation of feed rate effect

محل انتشار:

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خلاصه مقاله:

Prediction of material properties and behaviour during the process is important in any metal forming process such as flow forming. In flow forming, previous works were based on trial and error methods. The most useable test for studying the flow formability of materials is to reduce the thickness of a tube from initial to the lowest possible thickness. Then flow formability is defined as the maximum thickness reduction before fracture. Accurate determination of effects of parameters involved in the flow formability test became possible only recently when the FEM was introduced. In this paper the effect of process parameters such as attack angle and effect of feed rate on flow formability of high strength steels is investigated using ANSYS-LS DYAN version 9. The simulation results compared to experiments.

کلمات کلیدی:

Flow formability, flow formability simulation, simulation

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