

Hardening law identification by micro incremental sheet forming: a sensitivity study

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Short Abstract. Micro incremental sheet forming is investigated as a method to validate the constitutive model of material. This optimization is based on a reverse identification scheme. Numerical simulations are performed and compared with experimental tests, in order to have a corresponding model of material. Within further investigation into the numerical model, a sensitivity study is done on some geometrical parameters (e.g. uncertainty about tool's geometry or experimental test parameters) in order to evaluate the impact on the corresponding model of material.

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