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Influence of the post-necking prediction of hardening law on the theoretical forming limit curve of aluminium sheets

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Highlights

- New formulation for strain hardening function is presented
- A procedure for identifying parameters of proposed hardening model is developed based on curve fitting method. In this procedure, stress and strain data obtained from standard uniaxial tensile test were utilized.
- New method is presented for estimating the level of limited strain in the plane strain mode, FLC₀. Based on this
 - method, influence of post-necking prediction of hardening law on forming limit curve of aluminum sheet is discussed.

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