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An efficient model for diffuse to localized necking transition in rate-dependent bifurcation analysis of metallic sheets

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Highlights

- Plastic instability is modelled by vertex criterion coupled with angle-dependent yielding.
- Stress triaxiality is investigated on the localization in bifurcation analysis.
- Loading conditions are considered into diffuse by modified maximum force criterion.
- A delicate bridge between the diffusion and localized models is made.
- Anisotropy effect is studied by application of a quadratic Hill's criteria.

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