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Application of the Crystallo-Calorific Hardening approach to the constitutive modeling of the dynamic yield behavior of various metals with different crystalline structures

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## Highlights

- Dynamical experimental characterisation of mechanical behavior of 6 different metallic materials
- Determination of the unique sets of parameters of the CCH models for each material
- Validation of the modeling designed of each material using the CCH approach
- Commentaries on the yield behavior of each material

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