

Preface

Constitutive Modelling for any Material: metals like Al, steel, Ti, Mg... but also glass, wood, food, textile, composite..., covering complex loading paths, high strain rates, high temperatures, cyclic loading, etc. are described and applied or identified, if it targets forming processes.

The focus is:

- **APPROACHES BRIDGING THE SCALES:** from atomistic to macroscopic scale able to explain formability mechanism, hardening behaviour, rate sensitivity, anisotropy, toughness, phase transformation, etc.
- **FRACTURE PREDICTION:** by continuum damage mechanics, fracture criteria, crack propagation etc.
- **EXPERIMENTAL PROCEDURE** of model parameter identification, or physical experimental method applied for model validation.

Modeling work with experimental inspiration, validation, and verification are presented in this issue.

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