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The yield stress tensor

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## Highlights

- We define the yield stress tensor as the stress tensor at the yielding point.
- Viscoplastic models have induced misuse of expressions associated with yielding.
- The existence and uniqueness of a scalar that represents yielding is an assumption.
- The yield shear stress component is not necessarily the yield stress of the material.
- Reliable data are needed to determine the yield stress tensor in a variety of flows.

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