Self-Evaluation Report
Computational Plasticity (SoSe25)

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Phenomenology of Plasticity

1 Difference between elastic and plastic strain

To understand the difference between elastic and plastic strain, we can start by visualizing a simple stress-strain curve.

2   Microscopic origin of plastic deformation

Continuum Plasticity

3   Equivalent stress and yield function

4   Different yield criteria

5   Evolution of yield locus with plastic strain

6   Associated flow rule

Crystal Plasticity

7   Orowan law

8   Resolved shear stress

9   Finite strain formulation

10   Crystal plasticity flow rule

According to [**?**], the theory of plasticity provides a framework for understanding material behavior beyond elastic limits.

References