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Modeling the cyclic softening and lifetime of ferritic-martensitic steels under creep-fatigue loading

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Highlights

- Characterization of cyclic softening and lifetime of P91 ferritic-martensitic steel under creep-fatigue loading
- Extension of coupled visco-plasticity deformation and damage model to include creep-fatigue behavior
- Determination of material parameters for extended model at 550°C
- Successful lifetime calculation under fatigue as well as under creep-fatigue loading

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