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A continuum mechanics constitutive framework for transverse isotropic soft tissues

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HIGHLIGHTS

- A constitutive framework for transverse isotropic soft tissues is presented
- Strain rate, temperature and loading direction dependencies are taken into account
- The framework allows for its particularisation depending on the specific tissue
- A methodology for the particularisation of the constitutive framework is presented
- Constitutive models have been proposed for white matter and skin tissues

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