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A cyclic small-strain plasticity model for wrought Mg alloys under multiaxial loading: Numerical implementation and validation

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Highlights

- A cyclic plasticity model for anisotropic/asymmetric wrought Mg alloys is developed
- Mises yield surface is coupled with proposed anisotropic Ziegler's hardening rule
- Plastic moduli matrix contains hardening properties along different directions
- Proposed model is verified under proportional and non-proportional biaxial loadings

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