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Study of springback effect of AHS steels using a microstructure based modeling

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Highlights

- The cyclic stress–strain responses with large strain ranges could be determined.
- Cyclic stress–strain curves of AHSSs were predicted by RVE coupled with Y–U model.
- The Y–U kinematic model led to lower local strains, especially by compression load.
- The springback of AHSSs can be studied taking into account microstructural effects.

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