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Computer modelling of process of accumulation of rolling contact fatigue damage in railway wheels

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Highlights

- An algorithm for modeling of rolling contact fatigue damage accumulation is proposed.
- The amplitude of maximum shear stress is adopted as a criterion for fatigue failure.
- Rolling contact fatigue curves for wheel steels of different hardness are obtained.
- Effect of the wheel steel hardness on accumulation of the RCF damage is investigated.

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