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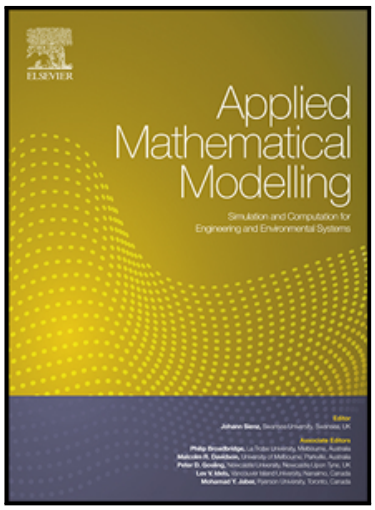

Automatic detection of degenerate planetary gear trains with different degree of freedoms

Wenjian Yang , Huafeng Ding

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Highlights

- A fully automatic algorithm to detect degenerate PGTs is proposed, based on our new graph model.
- The algorithm is applicable for PGTs with any number of degree of freedoms.
- The algorithm has been applied to a large number of PGTs, including the counterexamples found in literature.
- The algorithm has some merits relative to the existing ones.
- The algorithm is helpful for designing transmissions applied in engineering.

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