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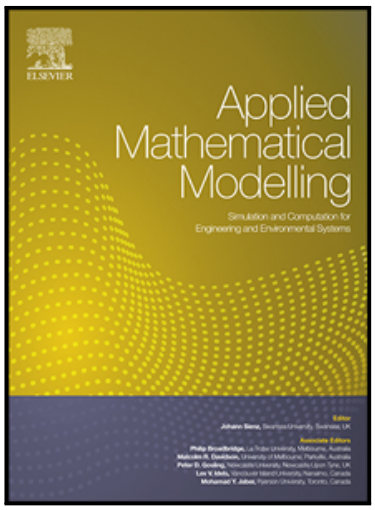

Reliability assessment of multi-state phased mission system with non-repairable multi-state components

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Highlight

- A MMDD algorithm for PMS and a PMS-MMDD model are proposed to model the non-repairable multi-state phased-mission system.
- A Markov renewal equation-based method is proposed to evaluate system probabilities with non-exponential distributions.
- The comparison to the Monte Carlo simulation method illustrate the computation accuracy and efficiency of the proposed methods.
- An attitude and orbit control system in spacecraft is studied as a practical example to illustrate the proposed methods.

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